

# Aortic Aneurysm: Systematic Review with SAIMSARA.

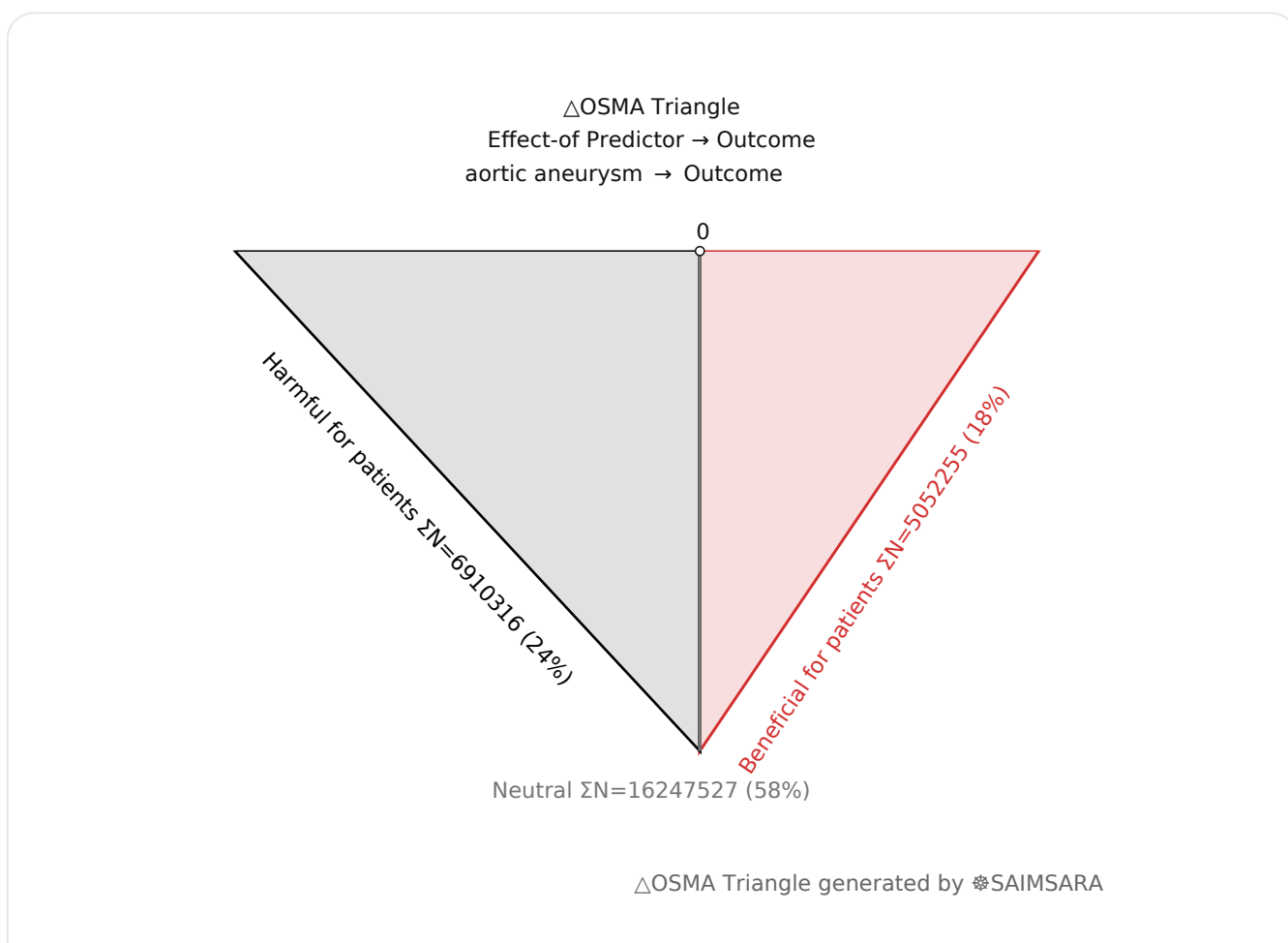
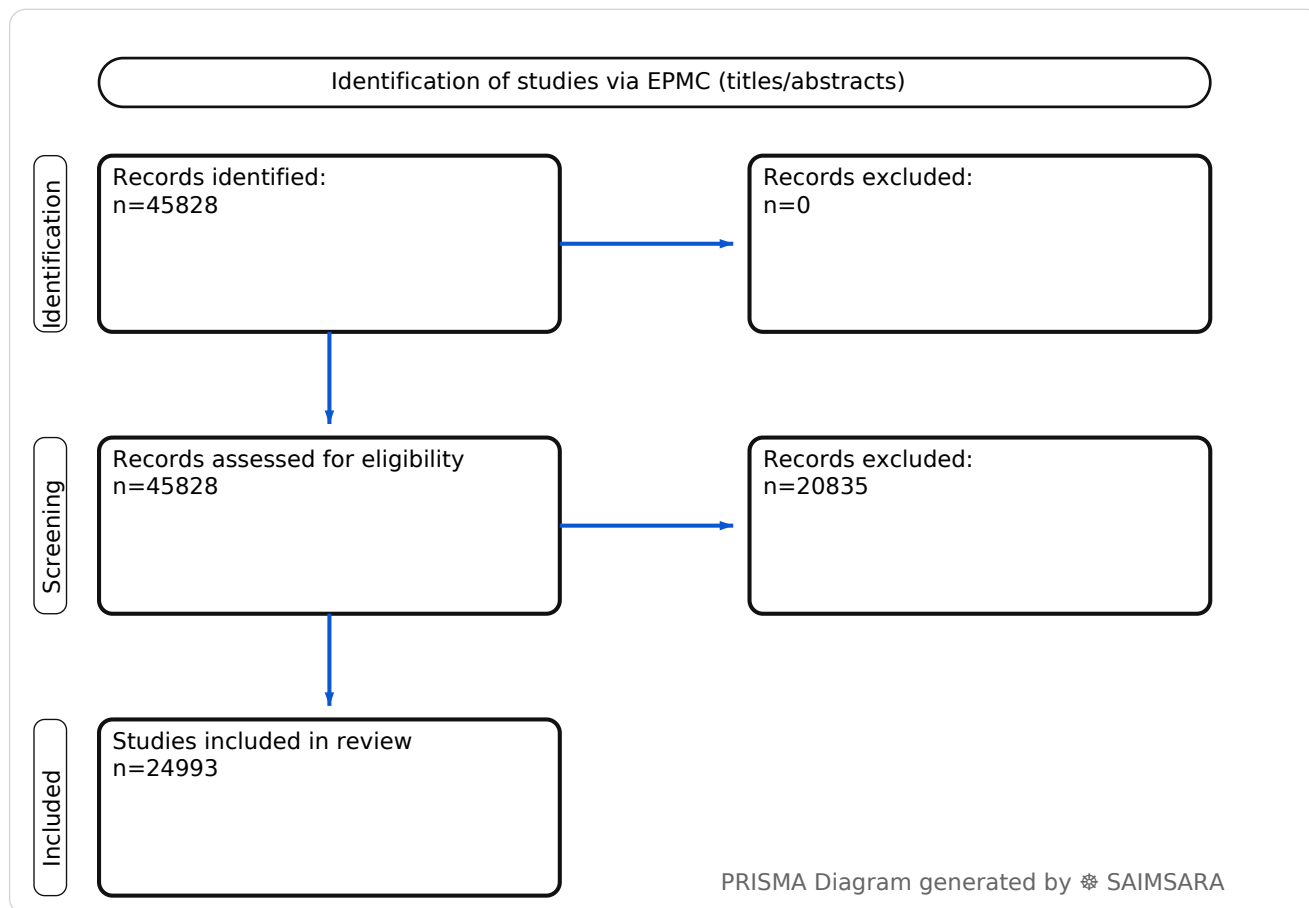
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**Abstract:** To synthesize recent findings on aortic aneurysm, covering risk factors, diagnostic and prognostic advancements, treatment modalities, and underlying molecular mechanisms. The review utilises 24993 studies with 28210098 total participants (naïve  $\Sigma N$ ). Hypertension is a significant risk factor for aortic aneurysm, with prospective cohort studies indicating a 1.17-fold increased risk of aortic aneurysm overall and most subtypes in hypertensive individuals compared to normotensive controls. The findings underscore the pervasive influence of cardiovascular risk factors and the ongoing evolution of diagnostic, prognostic, and therapeutic strategies for aortic aneurysm. The heterogeneity in study designs and varied follow-up durations remains a key limitation, affecting the certainty of some conclusions. Clinicians should prioritize comprehensive risk factor management, including aggressive blood pressure control, and consider emerging diagnostic tools and personalized treatment approaches for improved patient care.

**Keywords:** Aortic Aneurysm; Abdominal Aortic Aneurysm; Thoracic Aortic Aneurysm; Aortic Dissection; Endovascular Aneurysm Repair; Hypertension; Aortic Stiffness; Genetic Variants; Biomechanical Analysis; Vascular Smooth Muscle Cells

## Review Stats

- Generated: 2026-02-12 22:18:11 CET
- Plan: Pro (expanded craft tokens; source: Europe PMC)
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- Keyword Gate: Fuzzy ( $\geq 60\%$  of required terms, minimum 2 terms matched in title/abstract)
- Total Abstracts/Papers: 45828
- Downloaded Abstracts/Papers: 45828
- Included original Abstracts/Papers: 24993
- Total study participants (naïve  $\Sigma N$ ): 28210098



## **Outcome-Sentiment Meta-Analysis (OSMA): (LLM-only)**

*Frame:* Effect-of Predictor → Outcome • *Source:* Europe PMC

*Outcome:* Outcome Typical timepoints: peri/post-op, 30-day. Reported metrics: %, CI, p.

*Common endpoints:* Common endpoints: mortality, complications, survival.

*Predictor:* aortic aneurysm — exposure/predictor. Concentrations seen: 0.9%. Doses/units seen: 30 kg, 25.78 kg, 100 iu, 000 iu, 1.25 mg, 30 ml.... Routes seen: intravenous, iv, oral, topical....

Typical comparator: controls, elderly controls, hypertensive patients not, traditional methods....

- **1) Beneficial for patients** — Outcome with aortic aneurysm — [28], [34], [35], [37], [38], [53], [54], [59], [60], [63], [67], [70], [71], [73], [76], [77], [82], [87], [89], [92], [93], [94], [95], [99], [106], [109], [110], [112], [116], [119], [121], [123], [124], [125], [203], [204], [205], [208], [210], [212], [215], [217], [222], [232], [237], [239], [240], [241], [242], [244], [246], [276], [279], [280], [281], [283], [292], [380], [383], [396], [442], [446], [515], [522], [523], [576], [581], [583], [587], [593], [594], [598], [600], [644], [677], [680], [681], [683], [687], [689], [691], [696], [697], [698], [707], [710], [711], [718], [721], [724], [753], [755], [756], [757], [759], [768], [772], [775], [803], [805], [808], [812], [813], [814], [815], [817], [818], [819], [820], [821], [882], [887], [888], [895], [898], [902], [903], [906], [908], [911], [912], [913], [914], [915], [916], [918], [924], [1043], [1044], [1045], [1048], [1050], [1054], [1056], [1061], [1065], [1069], [1071], [1077], [1080], [1086], [1094], [1129], [1134], [1139], [1144], [1153], [1157], [1160], [1163], [1165], [1171], [1172], [1175], [1207], [1213], [1214], [1217], [1220], [1224], [1225], [1255], [1258], [1259], [1261], [1262], [1270], [1273], [1275], [1378], [1380], [1382], [1392], [1393], [1395], [1396], [1400], [1428], [1430], [1432], [1438], [1446], [1448], [1456], [1460], [1467], [1475], [1497], [1498], [1499], [1500], [1503], [1506], [1507], [1510], [1514], [1517], [1518], [1522], [1554], [1556], [1557], [1561], [1566], [1572], [1731], [1733], [1740], [1742], [1744], [1749], [1804], [1820], [1849], [1854], [1857], [1861], [1864], [1869], [1872], [1875], [1906], [1911], [1916], [1920], [1927], [1929], [1934], [1937], [1943], [1946], [1948], [1949], [1975], [1978], [1991], [1992], [1995], [1996], [1999], [2090], [2096], [2097], [2153], [2159], [2168], [2175], [2178], [2188], [2194], [2199], [2201], [2214], [2215], [2216], [2218], [2221], [2225], [2265], [2266], [2268], [2270], [2272], [2273], [2276], [2284], [2290], [2300], [2332], [2335], [2340], [2342], [2384], [2391], [2397], [2399], [2402], [2405], [2425], [2457], [2458], [2459], [2467], [2468], [2477], [2479], [2487], [2493], [2510], [2514], [2521], [2523], [2524], [2525], [2527], [2528], [2530], [2533], [2535], [2536], [2538], [2539], [2542], [2543], [2544], [2549], [2640], [2642], [2643], [2644], [2645], [2650], [2655], [2656], [2658], [2660], [2662], [2663], [2668], [2669], [2675], [2676], [2677], [2686], [2694], [2697], [2700], [2704], [2709], [2713], [2714], [2715], [2719], [2723],

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- **2) Harmful for patients** — Outcome with aortic aneurysm — [26], [36], [42], [43], [48], [49], [50], [51], [52], [55], [56], [57], [58], [61], [62], [64], [65], [66], [68], [69], [74], [78], [79], [84], [88], [100], [104], [107], [108], [111], [113], [118], [120], [202], [206], [209], [213], [223], [224], [225], [227], [228], [233], [238], [245], [247], [249], [250], [277], [282], [285], [286], [288], [289], [290], [291], [293], [295], [296], [297], [298], [378], [385], [387], [395], [400], [429], [431], [433], [437], [438], [440], [445], [447], [450], [501], [509], [510], [517], [519], [520], [525], [578], [579], [585], [588], [591], [597], [634], [640], [650], [676], [678], [682], [684], [688], [693], [694], [700], [703], [704], [706], [709], [714], [715], [716], [719], [722], [751], [761], [765], [766], [769], [770], [801], [802], [806], [807], [811], [822], [823], [825], [876], [877], [878], [884], [885], [891], [892], [897], [899], [900], [901], [907], [909], [910], [920], [921], [925], [1030], [1031], [1033], [1034], [1035], [1039], [1041], [1042], [1059], [1066], [1073], [1075], [1076], [1078], [1081], [1085], [1089], [1090], [1097], [1098], [1100], [1132], [1133], [1135], [1140], [1142], [1143], [1146], [1148], [1149], [1150], [1152], [1155], [1156], [1161], [1169], [1173], [1174], [1202], [1203], [1204], [1205], [1212], [1219], [1251], [1256], [1257], [1260], [1263], [1376], [1386], [1389], [1397], [1399],

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[4161], [4163], [4164], [4165], [4169], [4171], [4174], [4177], [4192], [4193], [4196], [4197], [4198], [4200], [4209], [4216], [4252], [4254], [4258], [4259], [4261], [4263], [4275], [4276], [4278], [4284], [4285], [4289], [4292], [4293], [4299], [4300], [4307], [4308], [4310], [4318], [4319], [4333], [4336], [4340], [4341], [4344], [4350], [4382], [4394], [4404], [4405], [4406], [4408], [4409], [4413], [4415], [4421], [4454], [4456], [4459], [4461], [4474], [4475], [4501], [4503], [4512], [4513], [4515], [4517], [4519], [4523], [4525], [4528], [4532], [4548], [4579], [4581], [4582], [4583], [4586], [4587], [4590], [4591], [4597], [4600], [4635], [4639], [4650], [4658], [4666], [4667], [4683], [4693], [4697], [4698], [4699], [4700], [4702], [4703], [4709], [4715], [4716], [4718], [4720], [4754], [4762], [4763], [4765], [4771], [4775], [4901], [4917], [4923], [4933], [4940], [4949], [4976], [4995], [4998], [5000], [5026], [5032], [5034], [5036], [5046], [5077], [5087], [5088], [5096], [5098], [5100], [5327], [5328], [5329], [5330], [5335], [5336], [5338], [5344], [5346], [5347], [5348], [5350], [5404], [5408], [5410], [5413], [5415], [5418], [5419], [5420], [5430], [5448], [5449], [5450], [5502], [5508], [5509], [5517], [5519], [5521], [5527], [5531], [5534], [5541], [5546], [5548], [5549], [5754], [5755], [5756], [5757], [5763], [5765], [5769], [5785], [5788], [5791], [5793], [5798], [5800], [5951], [5957], [5960], [5965], [5968], [5969], [5971], [5978], [5981], [5987], [5991], [5994], [6077], [6079], [6080], [6089], [6093], [6099], [6105], [6107], [6115], [6118], [6119], [6122], [6128], [6129], [6133], [6134], [6135], [6144], [6145], [6146], [6150], [6159], [6160], [6164], [6166], [6172], [6175], [6257], [6261], [6266], [6269], [6270], [6275], [6328], [6330], [6331], [6333], [6340], [6344], [6347], [6351], [6357], [6364], [6365], [6370], [6385], [6387], [6388], [6389], [6390], [6396], [6401], [6405], [6413], [6422], [6428], [6433], [6436], [6439], [6444], [6446], [6448], [6449], [6450], [6466], [6467], [6469], [6472], [6502], [6503], [6509], [6518], [6554], [6558], [6563], [6573], [6582], [6584], [6597], [6598], [6601], [6602], [6607], [6612], [6613], [6614], [6615], [6616], [6618], [6619], [6624], [6625], [6628], [6633], [6636], [6637], [6641], [6643], [6644], [6645], [6676], [6678], [6679], [6681], [6682], [6683], [6686], [6687], [6689], [6691], [6692], [6695], [6696], [6726], [6727], [6733], [6735], [6736], [6744], [6750], [6751], [6755], [6756], [6758], [6763], [6764], [6766], [6768], [6772], [6774], [6775], [6778], [6782], [6790], [6794], [6797], [6827], [6828], [6829], [6832], [6840], [6841], [6848], [6905], [6907], [6911], [6914], [6916], [6922], [6925], [6927], [6933], [6935], [6941], [6944], [6945], [6947], [6950], [6978], [6979], [6983], [6985], [6994], [6996], [6998], [6999], [7000], [7001], [7004], [7006], [7008], [7013], [7015], [7016], [7017], [7018], [7019], [7021], [7023], [7024], [7101], [7105], [7109], [7111], [7118], [7119], [7123], [7124], [7126], [7132], [7135], [7140], [7147], [7148], [7150], [7153], [7161], [7162], [7163], [7164], [7175], [7176], [7179], [7181], [7191], [7193], [7194], [7195], [7196], [7206], [7208], [7209], [7215], [7217], [7223], [7328], [7331], [7332], [7335], [7338], [7341], [7342], [7343], [7347], [7348], [7399], [7400], [7401], [7403],

[7409], [7413], [7414], [7416], [7417], [7418], [7419], [7421], [7423], [7432], [7433], [7438], [7442], [7530], [7536], [7537], [7538], [7540], [7541], [7545], [7546], [7548], [7581], [7588], [7590], [7591], [7592], [7594], [7598], [7600], [7602], [7604], [7605], [7609], [7611], [7612], [7613], [7617], [7620], [7621], [7622], [7652], [7653], [7655], [7657], [7660], [7672], [7674], [7701], [7702], [7704], [7705], [7706], [7707], [7710], [7716], [7720], [7725], [7757], [7764], [7775], [7802], [7809], [7822], [7825], [7878], [7883], [7888], [7890], [7897], [7903], [7910], [7911], [7917], [7922], [7932], [7942], [7945], [7949], [8052], [8053], [8054], [8059], [8060], [8061], [8063], [8071], [8076], [8077], [8079], [8080], [8085], [8090], [8094], [8096], [8099], [8101], [8103], [8104], [8109], [8116], [8117], [8120], [8121], [8122], [8124], [8129], [8132], [8135], [8138], [8150], [8204], [8205], [8217], [8221], [8222], [8225], [8253], [8256], [8257], [8267], [8275], [8286], [8288], [8290], [8291], [8296], [8302], [8304], [8305], [8308], [8309], [8313], [8317], [8325], [8330], [8336], [8341], [8344], [8346], [8348], [8349], [8350], [8351], [8352], [8355], [8357], [8359], [8365], [8368], [8369], [8371], [8401], [8402], [8412], [8416], [8417], [8419], [8420], [8423], [8433], [8437], [8441], [8443], [8445], [8450], [8453], [8458], [8459], [8466], [8470], [8472], [8528], [8531], [8532], [8533], [8535], [8539], [8541], [8544], [8549], [8550], [8583], [8584], [8590], [8593], [8605], [8616], [8701], [8709], [8725], [8810], [8825], [8827], [8832], [8841], [8843], [8845], [8847], [8850], [8876], [8879], [8880], [8882], [8887], [8890], [8895], [8901], [8902], [8912], [8920], [8921], [8951], [8953], [8955], [8962], [8967], [8971], [8975], [9008], [9009], [9011], [9013], [9014], [9016], [9020], [9023], [9025], [9029], [9030], [9045], [9126], [9128], [9129], [9133], [9136], [9137], [9141], [9142], [9143], [9147], [9150], [9153], [9157], [9158], [9162], [9165], [9166], [9175], [9251], [9252], [9253], [9259], [9260], [9264], [9281], [9282], [9286], [9290], [9291], [9293], [9294], [9296], [9316], [9324], [9325], [9354], [9356], [9357], [9358], [9360], [9363], [9364], [9372], [9433], [9438], [9439], [9443], [9446], [9447], [9448], [9451], [9466], [9471], [9472], [9477], [9483], [9489], [9492], [9495], [9500], [9552], [9556], [9564], [9566], [9575], [9577], [9578], [9580], [9581], [9584], [9585], [9587], [9588], [9589], [9590], [9598], [9626], [9631], [9637], [9638], [9646], [9647], [9648], [9703], [9706], [9708], [9711], [9712], [9715], [9716], [9719], [9723], [9725], [9729], [9732], [9735], [9748], [9764], [9775], [9780], [9781], [9783], [9784], [9790], [9803], [9806], [9807], [9818], [9824], [9829], [9830], [9832], [9838], [9840], [9842], [9843], [9850], [9876], [9878], [9883], [9888], [9890], [9893], [9900], [9902], [9907], [9914], [9915], [9919], [9933], [9941], [9945], [9949], [9950], [9984], [9986], [9992], [9993], [9997], [10002], [10009], [10018], [10019], [10023], [10025], [10026], [10033], [10035], [10038], [10051], [10053], [10057], [10061], [10066], [10074], [10075], [10151], [10155], [10156], [10157], [10159], [10161], [10165], [10167], [10177], [10179], [10184], [10187], [10190], [10192], [10195], [10197], [10203], [10204], [10206], [10215], [10225], [10226],

[10229], [10231], [10234], [10240], [10244], [10246], [10247], [10248], [10250], [10258], [10261], [10263], [10269], [10271], [10275], [10276], [10279], [10282], [10283], [10284], [10285], [10287], [10293], [10294], [10297], [10299], [10300], [10329], [10330], [10331], [10332], [10333], [10335], [10336], [10337], [10340], [10341], [10343], [10344], [10345], [10347], [10353], [10355], [10356], [10360], [10361], [10362], [10364], [10365], [10367], [10373], [10374], [10377], [10378], [10381], [10385], [10387], [10390], [10393], [10396], [10404], [10407], [10412], [10420], [10422], [10424], [10456], [10458], [10460], [10463], [10465], [10471], [10472], [10475], [10476], [10478], [10479], [10483], [10485], [10486], [10487], [10492], [10495], [10496], [10499], [10500], [10531], [10534], [10536], [10538], [10545], [10546], [10552], [10557], [10561], [10567], [10572], [10577], [10584], [10586], [10597], [10602], [10603], [10610], [10613], [10615], [10616], [10625], [10677], [10678], [10679], [10685], [10687], [10689], [10693], [10699], [10700], [10704], [10706], [10707], [10708], [10710], [10711], [10712], [10713], [10715], [10717], [10718], [10725], [10727], [10734], [10744], [10776], [10778], [10779], [10792], [10793], [10928], [10935], [10948], [10954], [10956], [10966], [10968], [10969], [10970], [11003], [11004], [11005], [11006], [11007], [11008], [11011], [11015], [11016], [11017], [11020], [11024], [11025], [11026], [11029], [11032], [11034], [11038], [11043], [11045], [11046], [11050], [11079], [11083], [11093], [11097], [11100], [11135], [11150], [11151], [11154], [11155], [11160], [11167], [11173], [11174], [11175], [11176], [11181], [11193], [11196], [11199], [11200], [11210], [11218], [11219], [11223], [11305], [11319], [11325], [11328], [11333], [11334], [11336], [11339], [11345], [11348], [11355], [11356], [11361], [11362], [11363], [11365], [11368], [11374], [11375], [11397], [11403], [11404], [11408], [11410], [11415], [11421], [11422], [11423], [11425], [11430], [11435], [11448], [11449], [11503], [11504], [11505], [11511], [11517], [11519], [11522], [11525], [11576], [11586], [11596], [11597], [11598], [11603], [11606], [11607], [11608], [11615], [11618], [11620], [11623], [11625], [11767], [11771], [11772], [11773], [11775], [11779], [11780], [11782], [11784], [11788], [11793], [11797], [11798], [11799], [11800], [11851], [11852], [11855], [11858], [11859], [11863], [11864], [11867], [11868], [11875], [11879], [11882], [11885], [11886], [11951], [11952], [11954], [11956], [11961], [11968], [11969], [11977], [11979], [11982], [11983], [11989], [11990], [11992], [11993], [11994], [11995], [11999], [12076], [12077], [12078], [12079], [12081], [12084], [12086], [12092], [12094], [12102], [12103], [12104], [12111], [12117], [12118], [12125], [12128], [12133], [12142], [12143], [12145], [12147], [12148], [12150], [12151], [12159], [12164], [12174], [12226], [12228], [12230], [12231], [12233], [12235], [12237], [12241], [12243], [12244], [12249], [12250], [12277], [12278], [12279], [12286], [12288], [12289], [12298],

[12304], [12314], [12320], [12324], [12328], [12330], [12331], [12334], [12336], [12343], [12344], [12345], [12346], [12377], [12381], [12382], [12391], [12396], [12427], [12436], [12448], [12450], [12478], [12480], [12484], [12493], [12496], [12498], [12500], [12526], [12538], [12545], [12546], [12550], [12605], [12607], [12608], [12610], [12612], [12617], [12621], [12622], [12623], [12625], [12631], [12636], [12643], [12646], [12650], [12777], [12779], [12780], [12782], [12783], [12786], [12792], [12793], [12828], [12837], [12839], [12842], [12847], [12848], [12852], [12867], [12868], [12875], [12880], [12882], [12884], [12885], [12893], [12896], [12900], [12926], [12930], [12933], [12936], [12938], [12939], [12940], [12942], [12946], [12947], [12948], [12978], [12982], [12983], [13105], [13117], [13120], [13125], [13128], [13129], [13135], [13141], [13150], [13178], [13180], [13185], [13189], [13190], [13198], [13200], [13213], [13217], [13219], [13252], [13255], [13257], [13261], [13268], [13275], [13276], [13286], [13289], [13292], [13294], [13295], [13297], [13300], [13352], [13356], [13362], [13363], [13364], [13365], [13375], [13403], [13405], [13408], [13409], [13411], [13419], [13420], [13425], [13426], [13429], [13433], [13438], [13444], [13448], [13450], [13478], [13479], [13481], [13485], [13489], [13492], [13495], [13498], [13527], [13531], [13536], [13537], [13540], [13545], [13550], [13579], [13583], [13586], [13590], [13591], [13593], [13600], [13603], [13605], [13606], [13610], [13612], [13616], [13619], [13625], [13629], [13638], [13644], [13645], [13649], [13679], [13684], [13688], [13693], [13700], [13728], [13729], [13733], [13750], [13785], [13800], [13802], [13805], [13806], [13807], [13808], [13813], [13816], [13818], [13820], [13821], [13822], [13825], [13827], [13831], [13832], [13833], [13835], [13838], [13842], [13847], [13849], [13851], [13853], [13854], [13859], [13860], [13865], [13870], [13871], [13873], [13874], [13875], [13915], [13926], [13930], [13933], [13935], [13943], [13950], [13951], [13954], [13955], [13956], [13960], [13963], [13967], [13971], [13974], [13975], [14017], [14023], [14102], [14114], [14118], [14126], [14127], [14132], [14135], [14141], [14145], [14146], [14149], [14176], [14183], [14189], [14190], [14191], [14194], [14197], [14200], [14202], [14204], [14215], [14216], [14217], [14218], [14221], [14223], [14228], [14231], [14241], [14243], [14250], [14276], [14278], [14281], [14286], [14291], [14293], [14298], [14299], [14300], [14351], [14352], [14353], [14359], [14360], [14361], [14363], [14364], [14368], [14372], [14376], [14377], [14380], [14386], [14388], [14389], [14391], [14396], [14405], [14406], [14409], [14413], [14415], [14417], [14418], [14419], [14421], [14423], [14424], [14425], [14476], [14477], [14482], [14483], [14484], [14487], [14488], [14490], [14492], [14494], [14496], [14502], [14503], [14504], [14506], [14508], [14509], [14513], [14515], [14518], [14519], [14521], [14522], [14524], [14628], [14634], [14636], [14640], [14648], [14731], [14733],

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[20013], [20016], [20025], [20233], [20238], [20239], [20241], [20248], [20249], [20250], [20255], [20262], [20267], [20271], [20275], [20276], [20285], [20293], [20295], [20301], [20328], [20330], [20333], [20337], [20348], [20350], [20352], [20355], [20358], [20359], [20369], [20370], [20373], [20377], [20378], [20384], [20385], [20386], [20389], [20390], [20391], [20396], [20399], [20400], [20403], [20404], [20410], [20420], [20422], [20455], [20458], [20501], [20504], [20505], [20513], [20521], [20525], [20533], [20538], [20540], [20541], [20545], [20548], [20556], [20562], [20566], [20572], [20579], [20582], [20588], [20593], [20595], [20596], [20597], [20599], [20601], [20604], [20605], [20617], [20619], [20620], [20630], [20631], [20632], [20637], [20641], [20645], [20650], [20656], [20660], [20662], [20664], [20668], [20669], [20675], [20703], [20704], [20706], [20707], [20714], [20719], [20722], [20728], [20729], [20731], [20732], [20734], [20735], [20739], [20745], [20749], [20912], [20976], [20978], [20995], [21000], [21051], [21052], [21057], [21063], [21064], [21069], [21070], [21074], [21075], [21108], [21113], [21118], [21123], [21125], [21126], [21128], [21133], [21134], [21136], [21138], [21143], [21146], [21150], [21151], [21157], [21158], [21161], [21162], [21163], [21164], [21165], [21170], [21173], [21174], [21185], [21186], [21188], [21189], [21190], [21198], [21200], [21209], [21210], [21213], [21214], [21215], [21220], [21224], [21225], [21426], [21428], [21434], [21443], [21502], [21503], [21514], [21517], [21522], [21525], [21526], [21527], [21531], [21532], [21537], [21539], [21540], [21542], [21543], [21544], [21546], [21547], [21548], [21560], [21563], [21565], [21571], [21575], [21631], [21634], [21636], [21639], [21640], [21642], [21645], [21646], [21647], [21650], [21677], [21678], [21679], [21686], [21692], [21695], [21697], [21699], [21700], [21702], [21712], [21714], [21715], [21721], [21724], [21827], [21828], [21830], [21839], [21840], [21850], [21879], [21884], [21885], [21891], [21895], [21897], [22052], [22055], [22058], [22062], [22063], [22067], [22069], [22133], [22134], [22150], [22227], [22242], [22244], [22245], [22247], [22249], [22250], [22278], [22280], [22283], [22285], [22288], [22290], [22291], [22295], [22296], [22297], [22357], [22360], [22362], [22363], [22367], [22370], [22371], [22372], [22403], [22409], [22412], [22413], [22419], [22501], [22510], [22513], [22518], [22522], [22525], [22551], [22554], [22556], [22560], [22565], [22569], [22572], [22576], [22577], [22583], [22587], [22588], [22591], [22593], [22597], [22599], [22676], [22679], [22680], [22682], [22684], [22686], [22688], [22703], [22707], [22709], [22714], [22716], [22720], [22724], [22754], [22761], [22769], [22773], [22774], [22775], [22777], [22778], [22780], [22781], [22782], [22786], [22788], [22789], [22791], [22792], [22796], [22797], [22798], [22829], [22830], [22834], [22838], [22840], [22845], [22850], [22951], [22957], [22958], [22960], [22965], [22972], [22973], [22974], [23006], [23007],

[23011], [23012], [23013], [23015], [23020], [23022], [23023], [23024], [23030], [23050], [23104], [23110], [23121], [23122], [23201], [23203], [23204], [23205], [23208], [23212], [23215], [23218], [23219], [23221], [23225], [23282], [23286], [23287], [23299], [23300], [23352], [23354], [23357], [23359], [23366], [23367], [23369], [23371], [23379], [23381], [23384], [23386], [23392], [23395], [23399], [23402], [23403], [23409], [23415], [23416], [23417], [23422], [23459], [23465], [23470], [23471], [23473], [23476], [23493], [23530], [23540], [23544], [23547], [23550], [23582], [23584], [23585], [23590], [23592], [23600], [23626], [23627], [23631], [23632], [23634], [23635], [23637], [23638], [23644], [23646], [23648], [23649], [23650], [23653], [23658], [23663], [23670], [23674], [23675], [23727], [23728], [23729], [23738], [23741], [23746], [23748], [23752], [23753], [23756], [23757], [23760], [23762], [23765], [23768], [23769], [23772], [23774], [23775], [23776], [23778], [23782], [23783], [23786], [23788], [23792], [23800], [23827], [23828], [23829], [23830], [23833], [23835], [23847], [23849], [23854], [23861], [23868], [23875], [23877], [23879], [23880], [23883], [23884], [23891], [23892], [23897], [23898], [23899], [23917], [23922], [23925], [23952], [23954], [23961], [23967], [23969], [23975], [24181], [24191], [24193], [24194], [24198], [24201], [24202], [24208], [24209], [24213], [24215], [24218], [24219], [24221], [24222], [24224], [24225], [24277], [24283], [24285], [24286], [24295], [24296], [24298], [24299], [24388], [24389], [24393], [24404], [24409], [24413], [24416], [24425], [24438], [24498], [24501], [24505], [24508], [24511], [24519], [24528], [24531], [24532], [24533], [24536], [24539], [24540], [24541], [24542], [24543], [24545], [24546], [24576], [24577], [24579], [24580], [24581], [24582], [24586], [24587], [24588], [24589], [24590], [24591], [24594], [24597], [24655], [24662], [24665], [24675], [24778], [24779], [24782], [24799], [24800], [24838], [24843], [24847] —  $\Sigma N=6910316$

- **3) No clear effect** — Outcome with aortic aneurysm — [1], [2], [3], [4], [5], [6], [7], [8], [9], [10], [11], [12], [13], [14], [15], [16], [17], [18], [19], [20], [21], [22], [23], [24], [25], [27], [29], [30], [31], [32], [33], [39], [40], [41], [44], [45], [46], [47], [72], [75], [80], [81], [83], [85], [86], [90], [91], [96], [97], [98], [101], [102], [103], [105], [114], [115], [117], [122], [126], [127], [128], [129], [130], [131], [132], [133], [134], [135], [136], [137], [138], [139], [140], [141], [142], [143], [144], [145], [146], [147], [148], [149], [150], [151], [152], [153], [154], [155], [156], [157], [158], [159], [160], [161], [162], [163], [164], [165], [166], [167], [168], [169], [170], [171], [172], [173], [174], [175], [176], [177], [178], [179], [180], [181], [182], [183], [184], [185], [186], [187], [188], [189], [190], [191], [192], [193], [194], [195], [196], [197], [198], [199], [200], [201], [207], [211], [214], [216], [218], [219], [220], [221], [226], [229], [230], [231], [234], [235], [236], [243], [248], [251], [252], [253], [254], [255], [256], [257],

[258], [259], [260], [261], [262], [263], [264], [265], [266], [267], [268], [269], [270], [271], [272], [273], [274], [275], [278], [284], [287], [294], [299], [300], [301], [302], [303], [304], [305], [306], [307], [308], [309], [310], [311], [312], [313], [314], [315], [316], [317], [318], [319], [320], [321], [322], [323], [324], [325], [326], [327], [328], [329], [330], [331], [332], [333], [334], [335], [336], [337], [338], [339], [340], [341], [342], [343], [344], [345], [346], [347], [348], [349], [350], [351], [352], [353], [354], [355], [356], [357], [358], [359], [360], [361], [362], [363], [364], [365], [366], [367], [368], [369], [370], [371], [372], [373], [374], [375], [376], [377], [379], [381], [382], [384], [386], [388], [389], [390], [391], [392], [393], [394], [397], [398], [399], [401], [402], [403], [404], [405], [406], [407], [408], [409], [410], [411], [412], [413], [414], [415], [416], [417], [418], [419], [420], [421], [422], [423], [424], [425], [426], [427], [428], [430], [432], [434], [435], [436], [439], [441], [443], [444], [448], [449], [451], [452], [453], [454], [455], [456], [457], [458], [459], [460], [461], [462], [463], [464], [465], [466], [467], [468], [469], [470], [471], [472], [473], [474], [475], [476], [477], [478], [479], [480], [481], [482], [483], [484], [485], [486], [487], [488], [489], [490], [491], [492], [493], [494], [495], [496], [497], [498], [499], [500], [502], [503], [504], [505], [506], [507], [508], [511], [512], [513], [514], [516], [518], [521], [524], [526], [527], [528], [529], [530], [531], [532], [533], [534], [535], [536], [537], [538], [539], [540], [541], [542], [543], [544], [545], [546], [547], [548], [549], [550], [551], [552], [553], [554], [555], [556], [557], [558], [559], [560], [561], [562], [563], [564], [565], [566], [567], [568], [569], [570], [571], [572], [573], [574], [575], [577], [580], [582], [584], [586], [589], [590], [592], [595], [596], [599], [601], [602], [603], [604], [605], [606], [607], [608], [609], [610], [611], [612], [613], [614], [615], [616], [617], [618], [619], [620], [621], [622], [623], [624], [625], [626], [627], [628], [629], [630], [631], [632], [633], [635], [636], [637], [638], [639], [641], [642], [643], [645], [646], [647], [648], [649], [651], [652], [653], [654], [655], [656], [657], [658], [659], [660], [661], [662], [663], [664], [665], [666], [667], [668], [669], [670], [671], [672], [673], [674], [675], [679], [685], [686], [690], [692], [695], [699], [701], [702], [705], [708], [712], [713], [717], [720], [723], [725], [726], [727], [728], [729], [730], [731], [732], [733], [734], [735], [736], [737], [738], [739], [740], [741], [742], [743], [744], [745], [746], [747], [748], [749], [750], [752], [754], [758], [760], [762], [763], [764], [767], [771], [773], [774], [776], [777], [778], [779], [780], [781], [782], [783], [784], [785], [786], [787], [788], [789], [790], [791], [792], [793], [794], [795], [796], [797], [798], [799], [800], [804], [809], [810], [816], [824], [826], [827], [828], [829], [830], [831], [832], [833], [834], [835], [836], [837], [838], [839], [840], [841], [842], [843], [844], [845], [846], [847], [848], [849], [850], [851], [852], [853], [854], [855], [856], [857], [858], [859], [860], [861], [862], [863], [864], [865], [866], [867], [868], [869], [870], [871], [872], [873], [874], [875], [879], [880], [881], [883], [886], [889], [890], [893], [894],

[896], [904], [905], [917], [919], [922], [923], [926], [927], [928], [929], [930], [931], [932], [933], [934], [935], [936], [937], [938], [939], [940], [941], [942], [943], [944], [945], [946], [947], [948], [949], [950], [951], [952], [953], [954], [955], [956], [957], [958], [959], [960], [961], [962], [963], [964], [965], [966], [967], [968], [969], [970], [971], [972], [973], [974], [975], [976], [977], [978], [979], [980], [981], [982], [983], [984], [985], [986], [987], [988], [989], [990], [991], [992], [993], [994], [995], [996], [997], [998], [999], [1000], [1001], [1002], [1003], [1004], [1005], [1006], [1007], [1008], [1009], [1010], [1011], [1012], [1013], [1014], [1015], [1016], [1017], [1018], [1019], [1020], [1021], [1022], [1023], [1024], [1025], [1026], [1027], [1028], [1029], [1032], [1036], [1037], [1038], [1040], [1046], [1047], [1049], [1051], [1052], [1053], [1055], [1057], [1058], [1060], [1062], [1063], [1064], [1067], [1068], [1070], [1072], [1074], [1079], [1082], [1083], [1084], [1087], [1088], [1091], [1092], [1093], [1095], [1096], [1099], [1101], [1102], [1103], [1104], [1105], [1106], [1107], [1108], [1109], [1110], [1111], [1112], [1113], [1114], [1115], [1116], [1117], [1118], [1119], [1120], [1121], [1122], [1123], [1124], [1125], [1126], [1127], [1128], [1130], [1131], [1136], [1137], [1138], [1141], [1145], [1147], [1151], [1154], [1158], [1159], [1162], [1164], [1166], [1167], [1168], [1170], [1176], [1177], [1178], [1179], [1180], [1181], [1182], [1183], [1184], [1185], [1186], [1187], [1188], [1189], [1190], [1191], [1192], [1193], [1194], [1195], [1196], [1197], [1198], [1199], [1200], [1201], [1206], [1208], [1209], [1210], [1211], [1215], [1216], [1218], [1221], [1222], [1223], [1226], [1227], [1228], [1229], [1230], [1231], [1232], [1233], [1234], [1235], [1236], [1237], [1238], [1239], [1240], [1241], [1242], [1243], [1244], [1245], [1246], [1247], [1248], [1249], [1250], [1252], [1253], [1254], [1264], [1265], [1266], [1267], [1268], [1269], [1271], [1272], [1274], [1276], [1277], [1278], [1279], [1280], [1281], [1282], [1283], [1284], [1285], [1286], [1287], [1288], [1289], [1290], [1291], [1292], [1293], [1294], [1295], [1296], [1297], [1298], [1299], [1300], [1301], [1302], [1303], [1304], [1305], [1306], [1307], [1308], [1309], [1310], [1311], [1312], [1313], [1314], [1315], [1316], [1317], [1318], [1319], [1320], [1321], [1322], [1323], [1324], [1325], [1326], [1327], [1328], [1329], [1330], [1331], [1332], [1333], [1334], [1335], [1336], [1337], [1338], [1339], [1340], [1341], [1342], [1343], [1344], [1345], [1346], [1347], [1348], [1349], [1350], [1351], [1352], [1353], [1354], [1355], [1356], [1357], [1358], [1359], [1360], [1361], [1362], [1363], [1364], [1365], [1366], [1367], [1368], [1369], [1370], [1371], [1372], [1373], [1374], [1375], [1377], [1379], [1381], [1383], [1384], [1385], [1387], [1388], [1390], [1391], [1394], [1398], [1401], [1402], [1403], [1404], [1405], [1406], [1407], [1408], [1409], [1410], [1411], [1412], [1413], [1414], [1415], [1416], [1417], [1418], [1419], [1420], [1421], [1422], [1423], [1424], [1425], [1426], [1427], [1429], [1431], [1434], [1435], [1436], [1437], [1439], [1440], [1441], [1442], [1443], [1445], [1447], [1449], [1451], [1453], [1454], [1461], [1462], [1463], [1464], [1469], [1470], [1471], [1474],

[1476], [1477], [1478], [1479], [1480], [1481], [1482], [1483], [1484], [1486], [1487], [1488], [1489], [1491], [1492], [1493], [1495], [1496], [1502], [1505], [1508], [1509], [1511], [1512], [1513], [1515], [1516], [1519], [1520], [1521], [1523], [1524], [1526], [1527], [1528], [1529], [1530], [1531], [1532], [1533], [1534], [1535], [1536], [1537], [1538], [1539], [1540], [1541], [1542], [1543], [1544], [1545], [1546], [1547], [1548], [1549], [1550], [1551], [1552], [1553], [1555], [1558], [1562], [1563], [1564], [1567], [1568], [1570], [1573], [1575], [1576], [1577], [1578], [1579], [1580], [1581], [1582], [1583], [1584], [1585], [1586], [1587], [1588], [1589], [1590], [1591], [1592], [1593], [1594], [1595], [1596], [1597], [1598], [1599], [1600], [1601], [1602], [1603], [1604], [1605], [1606], [1607], [1608], [1609], [1610], [1611], [1612], [1613], [1614], [1615], [1616], [1617], [1618], [1619], [1620], [1621], [1622], [1623], [1624], [1625], [1626], [1627], [1628], [1629], [1630], [1631], [1632], [1633], [1634], [1635], [1636], [1637], [1638], [1639], [1640], [1641], [1642], [1643], [1644], [1645], [1646], [1647], [1648], [1649], [1650], [1651], [1652], [1653], [1654], [1655], [1656], [1657], [1658], [1659], [1660], [1661], [1662], [1663], [1664], [1665], [1666], [1667], [1668], [1669], [1670], [1671], [1672], [1673], [1674], [1675], [1676], [1677], [1678], [1679], [1680], [1681], [1682], [1683], [1684], [1685], [1686], [1687], [1688], [1689], [1690], [1691], [1692], [1693], [1694], [1695], [1696], [1697], [1698], [1699], [1700], [1701], [1702], [1703], [1704], [1705], [1706], [1707], [1708], [1709], [1710], [1711], [1712], [1713], [1714], [1715], [1716], [1717], [1718], [1719], [1720], [1721], [1722], [1723], [1724], [1725], [1728], [1729], [1730], [1732], [1735], [1736], [1737], [1738], [1739], [1741], [1743], [1747], [1748], [1750], [1751], [1752], [1753], [1754], [1755], [1756], [1757], [1758], [1759], [1760], [1761], [1762], [1763], [1764], [1765], [1766], [1767], [1768], [1769], [1770], [1771], [1772], [1773], [1774], [1775], [1776], [1777], [1778], [1779], [1780], [1781], [1782], [1783], [1784], [1785], [1786], [1787], [1788], [1789], [1790], [1791], [1792], [1793], [1794], [1795], [1796], [1797], [1798], [1799], [1800], [1801], [1802], [1803], [1807], [1808], [1809], [1810], [1812], [1813], [1814], [1815], [1816], [1817], [1818], [1819], [1821], [1822], [1823], [1826], [1827], [1828], [1829], [1830], [1832], [1833], [1834], [1835], [1837], [1838], [1839], [1840], [1841], [1843], [1844], [1845], [1847], [1848], [1850], [1851], [1853], [1855], [1856], [1858], [1860], [1862], [1863], [1865], [1866], [1867], [1873], [1874], [1876], [1877], [1878], [1879], [1880], [1881], [1882], [1883], [1884], [1885], [1886], [1887], [1888], [1889], [1890], [1891], [1892], [1893], [1894], [1895], [1896], [1897], [1898], [1899], [1900], [1901], [1902], [1903], [1904], [1907], [1908], [1910], [1912], [1914], [1915], [1917], [1918], [1921], [1922], [1923], [1924], [1926], [1928], [1930], [1932], [1935], [1938], [1939], [1940], [1942], [1944], [1945], [1947], [1951], [1952], [1953], [1955], [1956], [1957], [1958], [1959], [1960], [1961], [1962], [1963], [1964], [1967], [1968], [1969], [1970], [1972], [1973], [1976], [1977], [1979], [1980], [1983], [1987], [1988], [1994], [1997], [2001], [2002],

[2003], [2004], [2005], [2006], [2007], [2008], [2009], [2010], [2011], [2012], [2013], [2014], [2015], [2016], [2017], [2018], [2019], [2020], [2021], [2022], [2023], [2024], [2025], [2026], [2027], [2028], [2029], [2030], [2031], [2032], [2033], [2034], [2035], [2036], [2037], [2038], [2039], [2040], [2041], [2042], [2043], [2044], [2045], [2046], [2047], [2048], [2049], [2050], [2051], [2052], [2053], [2054], [2055], [2056], [2057], [2058], [2059], [2060], [2061], [2062], [2063], [2064], [2065], [2066], [2067], [2068], [2069], [2070], [2071], [2072], [2073], [2074], [2075], [2077], [2079], [2080], [2081], [2082], [2084], [2086], [2088], [2089], [2093], [2094], [2095], [2098], [2099], [2100], [2101], [2102], [2103], [2104], [2105], [2106], [2107], [2108], [2109], [2110], [2111], [2112], [2113], [2114], [2115], [2116], [2117], [2118], [2119], [2120], [2121], [2122], [2123], [2124], [2125], [2126], [2127], [2128], [2129], [2130], [2131], [2132], [2133], [2134], [2135], [2136], [2137], [2138], [2139], [2140], [2141], [2142], [2143], [2144], [2145], [2146], [2147], [2148], [2149], [2150], [2152], [2155], [2156], [2157], [2160], [2162], [2163], [2165], [2167], [2169], [2170], [2171], [2172], [2173], [2174], [2177], [2179], [2180], [2181], [2183], [2184], [2185], [2186], [2187], [2189], [2190], [2192], [2196], [2197], [2198], [2202], [2203], [2204], [2205], [2206], [2207], [2208], [2209], [2210], [2211], [2213], [2217], [2219], [2220], [2222], [2223], [2224], [2226], [2227], [2228], [2229], [2230], [2231], [2232], [2233], [2234], [2235], [2236], [2237], [2238], [2239], [2240], [2241], [2242], [2243], [2244], [2245], [2246], [2247], [2248], [2249], [2250], [2251], [2253], [2254], [2256], [2263], [2271], [2275], [2277], [2279], [2281], [2287], [2289], [2291], [2292], [2294], [2296], [2297], [2299], [2302], [2303], [2304], [2305], [2306], [2307], [2308], [2309], [2310], [2311], [2312], [2313], [2314], [2315], [2317], [2319], [2320], [2321], [2324], [2325], [2326], [2327], [2328], [2329], [2330], [2333], [2334], [2336], [2338], [2339], [2341], [2343], [2344], [2345], [2347], [2348], [2349], [2350], [2351], [2352], [2353], [2354], [2355], [2356], [2357], [2358], [2359], [2360], [2361], [2362], [2363], [2364], [2365], [2366], [2367], [2368], [2369], [2370], [2371], [2372], [2373], [2374], [2375], [2376], [2379], [2380], [2381], [2382], [2383], [2385], [2386], [2387], [2388], [2389], [2390], [2392], [2393], [2394], [2395], [2396], [2398], [2401], [2404], [2409], [2410], [2412], [2413], [2414], [2416], [2417], [2418], [2421], [2423], [2426], [2427], [2428], [2429], [2430], [2431], [2432], [2433], [2434], [2435], [2436], [2437], [2438], [2439], [2440], [2441], [2442], [2443], [2444], [2445], [2446], [2447], [2448], [2449], [2450], [2451], [2453], [2454], [2455], [2456], [2460], [2462], [2463], [2464], [2465], [2466], [2469], [2470], [2471], [2473], [2474], [2476], [2478], [2481], [2482], [2483], [2484], [2485], [2486], [2489], [2491], [2494], [2495], [2496], [2497], [2498], [2499], [2500], [2502], [2504], [2505], [2506], [2509], [2532], [2537], [2540], [2545], [2546], [2547], [2550], [2551], [2552], [2553], [2554], [2555], [2556], [2557], [2558], [2559], [2560], [2561], [2562], [2563], [2564], [2565], [2566], [2567], [2568], [2569], [2570], [2571], [2572], [2573], [2574], [2575], [2576], [2577],

[2578], [2579], [2580], [2581], [2582], [2583], [2584], [2585], [2586], [2587], [2588], [2589], [2590], [2591], [2592], [2593], [2594], [2595], [2596], [2597], [2598], [2599], [2600], [2601], [2602], [2603], [2604], [2605], [2606], [2607], [2608], [2609], [2610], [2611], [2612], [2613], [2614], [2615], [2616], [2617], [2618], [2619], [2620], [2621], [2622], [2623], [2624], [2625], [2626], [2627], [2628], [2630], [2631], [2632], [2633], [2634], [2636], [2638], [2639], [2641], [2646], [2647], [2649], [2651], [2652], [2653], [2654], [2657], [2659], [2661], [2664], [2665], [2666], [2667], [2670], [2671], [2672], [2674], [2678], [2680], [2681], [2682], [2683], [2684], [2687], [2688], [2689], [2690], [2693], [2698], [2701], [2702], [2703], [2706], [2707], [2708], [2710], [2711], [2716], [2717], [2720], [2722], [2724], [2727], [2728], [2729], [2730], [2731], [2732], [2734], [2738], [2739], [2741], [2745], [2746], [2749], [2751], [2754], [2756], [2757], [2758], [2759], [2764], [2769], [2771], [2776], [2777], [2778], [2779], [2780], [2781], [2782], [2783], [2784], [2785], [2786], [2787], [2788], [2789], [2790], [2791], [2792], [2793], [2794], [2795], [2796], [2797], [2798], [2799], [2800], [2801], [2805], [2807], [2816], [2817], [2818], [2820], [2821], [2823], [2824], [2826], [2827], [2828], [2829], [2830], [2831], [2832], [2833], [2834], [2835], [2836], [2837], [2838], [2839], [2840], [2841], [2842], [2843], [2844], [2845], [2846], [2847], [2848], [2849], [2850], [2859], [2861], [2863], [2866], [2868], [2871], [2873], [2876], [2877], [2878], [2879], [2880], [2882], [2883], [2884], [2886], [2887], [2888], [2889], [2890], [2891], [2892], [2893], [2894], [2895], [2896], [2898], [2899], [2901], [2902], [2903], [2904], [2905], [2906], [2907], [2908], [2909], [2910], [2911], [2912], [2913], [2914], [2915], [2916], [2917], [2918], [2919], [2920], [2921], [2922], [2923], [2924], [2925], [2926], [2927], [2928], [2929], [2930], [2931], [2932], [2933], [2934], [2935], [2936], [2937], [2938], [2939], [2940], [2941], [2942], [2943], [2944], [2945], [2946], [2947], [2948], [2949], [2950], [2951], [2952], [2954], [2958], [2960], [2963], [2964], [2965], [2966], [2967], [2968], [2970], [2971], [2981], [2983], [2985], [2986], [2987], [2988], [2989], [2991], [2992], [2993], [2994], [2998], [2999], [3001], [3002], [3003], [3004], [3005], [3006], [3007], [3008], [3009], [3010], [3011], [3012], [3013], [3014], [3015], [3016], [3017], [3018], [3019], [3020], [3021], [3022], [3023], [3024], [3025], [3026], [3027], [3028], [3029], [3030], [3031], [3032], [3033], [3034], [3037], [3038], [3040], [3041], [3047], [3049], [3053], [3054], [3056], [3057], [3058], [3063], [3064], [3066], [3067], [3069], [3071], [3072], [3073], [3079], [3081], [3083], [3084], [3091], [3092], [3093], [3096], [3099], [3101], [3102], [3103], [3104], [3105], [3106], [3107], [3108], [3109], [3110], [3111], [3112], [3113], [3114], [3115], [3116], [3117], [3118], [3119], [3120], [3121], [3122], [3123], [3124], [3125], [3126], [3127], [3128], [3129], [3130], [3131], [3132], [3133], [3134], [3135], [3136], [3137], [3138], [3139], [3140], [3141], [3142], [3143], [3144], [3145], [3146], [3147], [3148], [3149], [3150], [3153], [3155], [3158], [3160], [3161], [3162], [3168], [3169], [3176], [3177], [3178], [3179], [3180], [3181], [3182], [3183], [3184],

[3185], [3186], [3187], [3188], [3189], [3190], [3191], [3192], [3193], [3194], [3195], [3196], [3197], [3198], [3199], [3200], [3201], [3202], [3203], [3204], [3205], [3206], [3207], [3208], [3209], [3210], [3211], [3212], [3213], [3214], [3215], [3216], [3217], [3218], [3219], [3220], [3221], [3222], [3223], [3224], [3225], [3226], [3227], [3230], [3231], [3233], [3234], [3236], [3237], [3239], [3240], [3242], [3243], [3244], [3248], [3249], [3251], [3252], [3253], [3254], [3255], [3256], [3257], [3260], [3262], [3263], [3264], [3266], [3267], [3269], [3270], [3271], [3272], [3273], [3274], [3276], [3277], [3278], [3279], [3280], [3281], [3282], [3283], [3284], [3285], [3286], [3287], [3288], [3289], [3290], [3291], [3292], [3293], [3294], [3295], [3296], [3297], [3298], [3299], [3300], [3301], [3304], [3309], [3313], [3314], [3318], [3319], [3320], [3322], [3323], [3324], [3326], [3328], [3331], [3334], [3335], [3336], [3337], [3342], [3344], [3347], [3352], [3354], [3355], [3356], [3358], [3359], [3360], [3361], [3362], [3363], [3365], [3366], [3367], [3368], [3369], [3370], [3371], [3372], [3373], [3376], [3377], [3378], [3379], [3380], [3381], [3382], [3383], [3384], [3385], [3386], [3387], [3388], [3389], [3390], [3391], [3392], [3393], [3394], [3395], [3396], [3397], [3398], [3399], [3400], [3401], [3402], [3403], [3406], [3411], [3412], [3413], [3418], [3420], [3422], [3424], [3426], [3427], [3428], [3430], [3431], [3432], [3434], [3437], [3439], [3441], [3442], [3444], [3445], [3446], [3447], [3448], [3450], [3451], [3452], [3453], [3454], [3455], [3456], [3457], [3458], [3459], [3460], [3461], [3462], [3463], [3464], [3465], [3466], [3467], [3468], [3469], [3470], [3471], [3472], [3473], [3474], [3475], [3477], [3478], [3479], [3480], [3481], [3483], [3484], [3485], [3486], [3490], [3491], [3492], [3493], [3494], [3497], [3498], [3501], [3502], [3503], [3504], [3505], [3506], [3507], [3508], [3509], [3510], [3511], [3512], [3513], [3514], [3515], [3516], [3517], [3518], [3519], [3520], [3521], [3522], [3523], [3524], [3525], [3526], [3527], [3528], [3529], [3530], [3531], [3532], [3533], [3534], [3535], [3536], [3537], [3538], [3539], [3540], [3541], [3542], [3543], [3544], [3545], [3546], [3547], [3548], [3549], [3550], [3552], [3553], [3554], [3556], [3557], [3558], [3559], [3563], [3564], [3565], [3566], [3568], [3571], [3572], [3573], [3574], [3576], [3577], [3578], [3579], [3580], [3581], [3582], [3583], [3584], [3585], [3586], [3587], [3588], [3589], [3590], [3591], [3592], [3593], [3594], [3595], [3596], [3597], [3598], [3599], [3600], [3601], [3602], [3603], [3604], [3605], [3606], [3607], [3608], [3609], [3610], [3611], [3612], [3613], [3614], [3615], [3616], [3617], [3618], [3619], [3620], [3621], [3622], [3623], [3624], [3625], [3626], [3627], [3628], [3629], [3630], [3631], [3632], [3633], [3634], [3635], [3636], [3637], [3638], [3639], [3640], [3641], [3642], [3643], [3644], [3645], [3646], [3647], [3648], [3649], [3650], [3651], [3652], [3653], [3654], [3655], [3656], [3657], [3658], [3659], [3660], [3661], [3662], [3663], [3664], [3665], [3666], [3667], [3668], [3669], [3670], [3671], [3672], [3673], [3674], [3675], [3676], [3677], [3678], [3679], [3680], [3681], [3682], [3683], [3684], [3685], [3686], [3687], [3688], [3689], [3690], [3691], [3692], [3693],

[3694], [3695], [3696], [3697], [3698], [3699], [3700], [3702], [3703], [3709], [3713], [3721], [3727], [3728], [3729], [3730], [3736], [3737], [3738], [3744], [3745], [3747], [3751], [3752], [3753], [3754], [3755], [3756], [3757], [3758], [3759], [3760], [3761], [3762], [3763], [3764], [3765], [3766], [3767], [3768], [3769], [3770], [3771], [3772], [3773], [3774], [3775], [3776], [3777], [3778], [3779], [3780], [3781], [3784], [3785], [3787], [3791], [3795], [3801], [3802], [3803], [3804], [3805], [3806], [3807], [3808], [3809], [3810], [3811], [3812], [3813], [3814], [3815], [3816], [3817], [3818], [3819], [3820], [3821], [3822], [3823], [3824], [3825], [3826], [3827], [3828], [3829], [3830], [3831], [3832], [3833], [3834], [3835], [3836], [3837], [3838], [3839], [3840], [3841], [3842], [3843], [3844], [3845], [3846], [3847], [3848], [3849], [3850], [3851], [3852], [3853], [3854], [3855], [3856], [3857], [3858], [3859], [3860], [3861], [3862], [3863], [3864], [3865], [3866], [3867], [3868], [3869], [3870], [3871], [3872], [3873], [3874], [3875], [3879], [3881], [3884], [3886], [3888], [3889], [3894], [3896], [3898], [3900], [3901], [3902], [3903], [3904], [3905], [3906], [3907], [3908], [3909], [3910], [3911], [3912], [3913], [3914], [3915], [3916], [3917], [3918], [3919], [3920], [3921], [3922], [3923], [3924], [3925], [3926], [3927], [3928], [3929], [3939], [3940], [3942], [3948], [3951], [3952], [3953], [3954], [3955], [3956], [3957], [3958], [3959], [3960], [3961], [3962], [3963], [3964], [3965], [3966], [3967], [3968], [3969], [3970], [3971], [3972], [3973], [3974], [3975], [3976], [3977], [3978], [3980], [3983], [3984], [3988], [3989], [3990], [3993], [3995], [3996], [3997], [3998], [4001], [4002], [4004], [4005], [4006], [4007], [4008], [4009], [4011], [4013], [4015], [4017], [4018], [4019], [4023], [4024], [4026], [4027], [4032], [4036], [4039], [4040], [4041], [4042], [4043], [4044], [4045], [4046], [4053], [4055], [4059], [4064], [4070], [4071], [4072], [4073], [4074], [4076], [4080], [4081], [4083], [4085], [4086], [4087], [4090], [4091], [4095], [4097], [4099], [4102], [4104], [4106], [4107], [4108], [4109], [4111], [4112], [4113], [4114], [4115], [4116], [4118], [4124], [4126], [4127], [4128], [4129], [4130], [4131], [4132], [4133], [4134], [4135], [4136], [4137], [4138], [4139], [4140], [4141], [4142], [4143], [4144], [4145], [4146], [4147], [4148], [4149], [4150], [4153], [4155], [4159], [4179], [4180], [4181], [4184], [4186], [4187], [4188], [4189], [4190], [4191], [4194], [4195], [4199], [4201], [4202], [4203], [4204], [4205], [4206], [4207], [4208], [4210], [4211], [4215], [4217], [4219], [4221], [4222], [4223], [4226], [4227], [4228], [4229], [4230], [4231], [4232], [4233], [4234], [4235], [4236], [4237], [4238], [4239], [4240], [4241], [4242], [4243], [4244], [4245], [4246], [4247], [4248], [4249], [4250], [4251], [4253], [4255], [4256], [4257], [4260], [4262], [4264], [4265], [4266], [4267], [4268], [4269], [4270], [4271], [4272], [4273], [4274], [4279], [4280], [4281], [4283], [4287], [4288], [4290], [4291], [4294], [4295], [4297], [4298], [4302], [4303], [4304], [4305], [4309], [4312], [4314], [4315], [4317], [4321], [4323], [4324], [4327], [4330], [4331], [4332], [4334], [4337], [4338], [4339], [4342], [4343], [4345], [4346], [4347], [4348], [4349], [4351],

[4352], [4353], [4354], [4355], [4356], [4357], [4358], [4359], [4360], [4361], [4362], [4363], [4364], [4365], [4366], [4367], [4368], [4369], [4370], [4371], [4372], [4373], [4374], [4375], [4376], [4377], [4378], [4379], [4380], [4383], [4384], [4385], [4387], [4388], [4389], [4390], [4391], [4392], [4393], [4395], [4396], [4397], [4398], [4399], [4400], [4401], [4402], [4403], [4407], [4410], [4412], [4416], [4418], [4419], [4422], [4426], [4427], [4428], [4429], [4430], [4431], [4432], [4433], [4434], [4435], [4436], [4437], [4438], [4439], [4440], [4441], [4442], [4443], [4444], [4445], [4446], [4447], [4448], [4449], [4450], [4451], [4452], [4455], [4458], [4460], [4462], [4464], [4466], [4467], [4468], [4469], [4472], [4473], [4476], [4477], [4478], [4479], [4480], [4481], [4482], [4483], [4484], [4485], [4486], [4487], [4488], [4489], [4490], [4491], [4492], [4493], [4494], [4495], [4496], [4497], [4498], [4499], [4500], [4504], [4505], [4506], [4507], [4508], [4511], [4520], [4521], [4522], [4524], [4526], [4527], [4529], [4530], [4531], [4533], [4534], [4535], [4537], [4538], [4539], [4540], [4542], [4543], [4544], [4545], [4546], [4547], [4549], [4551], [4552], [4553], [4554], [4555], [4556], [4557], [4558], [4559], [4560], [4561], [4562], [4563], [4564], [4565], [4566], [4567], [4568], [4569], [4570], [4571], [4572], [4573], [4574], [4575], [4576], [4577], [4578], [4580], [4584], [4585], [4588], [4589], [4592], [4594], [4595], [4596], [4598], [4599], [4601], [4602], [4603], [4604], [4605], [4606], [4607], [4608], [4609], [4610], [4611], [4612], [4613], [4614], [4615], [4616], [4617], [4618], [4619], [4620], [4621], [4622], [4623], [4624], [4625], [4626], [4627], [4628], [4629], [4632], [4633], [4634], [4636], [4638], [4641], [4642], [4643], [4645], [4646], [4647], [4648], [4649], [4651], [4652], [4653], [4655], [4659], [4660], [4661], [4662], [4663], [4664], [4665], [4668], [4669], [4670], [4672], [4673], [4674], [4676], [4677], [4678], [4679], [4680], [4682], [4685], [4688], [4689], [4690], [4691], [4695], [4701], [4704], [4706], [4707], [4710], [4711], [4712], [4713], [4714], [4717], [4719], [4721], [4722], [4723], [4724], [4725], [4726], [4727], [4728], [4729], [4730], [4731], [4732], [4733], [4734], [4735], [4736], [4737], [4738], [4739], [4740], [4741], [4742], [4743], [4744], [4745], [4746], [4747], [4748], [4749], [4750], [4751], [4752], [4753], [4755], [4756], [4757], [4758], [4759], [4760], [4761], [4764], [4766], [4767], [4768], [4769], [4770], [4772], [4773], [4774], [4776], [4777], [4778], [4779], [4780], [4781], [4782], [4783], [4784], [4785], [4786], [4787], [4788], [4789], [4790], [4791], [4792], [4793], [4794], [4795], [4796], [4797], [4798], [4799], [4800], [4801], [4802], [4803], [4804], [4805], [4806], [4807], [4808], [4809], [4810], [4811], [4812], [4813], [4814], [4815], [4816], [4817], [4818], [4819], [4820], [4821], [4822], [4823], [4824], [4825], [4826], [4827], [4828], [4829], [4830], [4831], [4832], [4833], [4834], [4835], [4836], [4837], [4838], [4839], [4840], [4841], [4842], [4843], [4844], [4845], [4846], [4847], [4848], [4849], [4850], [4851], [4852], [4853], [4854], [4855], [4856], [4857], [4858], [4859], [4860], [4861], [4862], [4863], [4864], [4865], [4866], [4867], [4868], [4869], [4870], [4871], [4872], [4873], [4874], [4875], [4876],

[4877], [4878], [4879], [4880], [4881], [4882], [4883], [4884], [4885], [4886], [4887], [4888], [4889], [4890], [4891], [4892], [4893], [4894], [4895], [4896], [4897], [4898], [4899], [4900], [4902], [4903], [4904], [4905], [4906], [4907], [4908], [4909], [4910], [4911], [4912], [4913], [4914], [4915], [4916], [4918], [4919], [4920], [4921], [4922], [4924], [4925], [4926], [4927], [4928], [4929], [4930], [4932], [4934], [4935], [4937], [4938], [4941], [4942], [4943], [4944], [4945], [4946], [4948], [4951], [4952], [4953], [4954], [4955], [4956], [4957], [4958], [4959], [4960], [4961], [4962], [4963], [4964], [4965], [4966], [4967], [4968], [4969], [4970], [4971], [4972], [4973], [4974], [4975], [4977], [4978], [4979], [4980], [4981], [4983], [4984], [4986], [4988], [4989], [4991], [4992], [4996], [4999], [5001], [5002], [5003], [5004], [5005], [5006], [5007], [5008], [5009], [5010], [5011], [5012], [5013], [5014], [5015], [5016], [5017], [5018], [5019], [5020], [5021], [5022], [5023], [5024], [5025], [5027], [5028], [5029], [5030], [5031], [5038], [5045], [5047], [5048], [5049], [5050], [5051], [5052], [5053], [5054], [5055], [5056], [5057], [5058], [5059], [5060], [5061], [5062], [5063], [5064], [5065], [5066], [5067], [5068], [5069], [5070], [5071], [5072], [5073], [5074], [5075], [5076], [5078], [5080], [5081], [5082], [5083], [5084], [5085], [5086], [5089], [5090], [5091], [5093], [5094], [5095], [5097], [5101], [5102], [5103], [5104], [5105], [5106], [5107], [5108], [5109], [5110], [5111], [5112], [5113], [5114], [5115], [5116], [5117], [5118], [5119], [5120], [5121], [5122], [5123], [5124], [5125], [5126], [5127], [5128], [5129], [5130], [5131], [5132], [5133], [5134], [5135], [5136], [5137], [5138], [5139], [5140], [5141], [5142], [5143], [5144], [5145], [5146], [5147], [5148], [5149], [5150], [5151], [5152], [5153], [5154], [5155], [5156], [5157], [5158], [5159], [5160], [5161], [5162], [5163], [5164], [5165], [5166], [5167], [5168], [5169], [5170], [5171], [5172], [5173], [5174], [5175], [5176], [5177], [5178], [5179], [5180], [5181], [5182], [5183], [5184], [5185], [5186], [5187], [5188], [5189], [5190], [5191], [5192], [5193], [5194], [5195], [5196], [5197], [5198], [5199], [5200], [5201], [5202], [5203], [5204], [5205], [5206], [5207], [5208], [5209], [5210], [5211], [5212], [5213], [5214], [5215], [5216], [5217], [5218], [5219], [5220], [5221], [5222], [5223], [5224], [5225], [5226], [5227], [5228], [5229], [5230], [5231], [5232], [5233], [5234], [5235], [5236], [5237], [5238], [5239], [5240], [5241], [5242], [5243], [5244], [5245], [5246], [5247], [5248], [5249], [5250], [5251], [5252], [5253], [5254], [5255], [5256], [5257], [5258], [5259], [5260], [5261], [5262], [5263], [5264], [5265], [5266], [5267], [5268], [5269], [5270], [5271], [5272], [5273], [5274], [5275], [5276], [5277], [5278], [5279], [5280], [5281], [5282], [5283], [5284], [5285], [5286], [5287], [5288], [5289], [5290], [5291], [5292], [5293], [5294], [5295], [5296], [5297], [5298], [5299], [5300], [5301], [5302], [5303], [5304], [5305], [5306], [5307], [5308], [5309], [5310], [5311], [5312], [5313], [5314], [5315], [5316], [5317], [5318], [5319], [5320], [5321], [5322], [5323], [5324], [5325], [5326], [5331], [5332], [5333], [5334], [5337], [5339], [5340], [5343], [5345], [5349], [5351], [5352], [5353],

[5354], [5355], [5356], [5357], [5358], [5359], [5360], [5361], [5362], [5363], [5364], [5365], [5366], [5367], [5368], [5369], [5370], [5371], [5372], [5373], [5374], [5375], [5376], [5377], [5378], [5379], [5380], [5381], [5382], [5383], [5384], [5385], [5386], [5387], [5388], [5389], [5390], [5391], [5392], [5393], [5394], [5395], [5396], [5397], [5398], [5399], [5400], [5401], [5402], [5403], [5405], [5406], [5407], [5416], [5421], [5422], [5423], [5426], [5427], [5428], [5429], [5431], [5432], [5433], [5434], [5435], [5436], [5437], [5438], [5439], [5440], [5441], [5442], [5443], [5444], [5445], [5446], [5447], [5451], [5452], [5453], [5454], [5455], [5456], [5457], [5458], [5459], [5460], [5461], [5462], [5463], [5464], [5465], [5466], [5467], [5468], [5469], [5470], [5471], [5472], [5473], [5474], [5475], [5476], [5477], [5478], [5479], [5480], [5481], [5482], [5483], [5484], [5485], [5486], [5487], [5488], [5489], [5490], [5491], [5492], [5493], [5494], [5495], [5496], [5497], [5498], [5499], [5500], [5501], [5503], [5504], [5505], [5506], [5507], [5510], [5512], [5513], [5514], [5515], [5516], [5518], [5520], [5522], [5523], [5524], [5526], [5528], [5529], [5530], [5532], [5533], [5536], [5537], [5538], [5539], [5540], [5542], [5543], [5544], [5547], [5551], [5552], [5553], [5554], [5555], [5556], [5557], [5558], [5559], [5560], [5561], [5562], [5563], [5564], [5565], [5566], [5567], [5568], [5569], [5570], [5571], [5572], [5573], [5574], [5575], [5576], [5577], [5578], [5579], [5580], [5581], [5582], [5583], [5584], [5585], [5586], [5587], [5588], [5589], [5590], [5591], [5592], [5593], [5594], [5595], [5596], [5597], [5598], [5599], [5600], [5601], [5602], [5603], [5604], [5605], [5606], [5607], [5608], [5609], [5610], [5611], [5612], [5613], [5614], [5615], [5616], [5617], [5618], [5619], [5620], [5621], [5622], [5623], [5624], [5625], [5626], [5627], [5628], [5629], [5630], [5631], [5632], [5633], [5634], [5635], [5636], [5637], [5638], [5639], [5640], [5641], [5642], [5643], [5644], [5645], [5646], [5647], [5648], [5649], [5650], [5651], [5652], [5653], [5654], [5655], [5656], [5657], [5658], [5659], [5660], [5661], [5662], [5663], [5664], [5665], [5666], [5667], [5668], [5669], [5670], [5671], [5672], [5673], [5674], [5675], [5676], [5677], [5678], [5679], [5680], [5681], [5682], [5683], [5684], [5685], [5686], [5687], [5688], [5689], [5690], [5691], [5692], [5693], [5694], [5695], [5696], [5697], [5698], [5699], [5700], [5701], [5702], [5703], [5704], [5705], [5706], [5707], [5708], [5709], [5710], [5711], [5712], [5713], [5714], [5715], [5716], [5717], [5718], [5719], [5720], [5721], [5722], [5723], [5724], [5725], [5726], [5727], [5728], [5729], [5730], [5731], [5732], [5733], [5734], [5735], [5736], [5737], [5738], [5739], [5740], [5741], [5742], [5743], [5744], [5745], [5746], [5747], [5748], [5749], [5750], [5751], [5758], [5762], [5764], [5768], [5770], [5772], [5773], [5774], [5775], [5776], [5781], [5783], [5786], [5787], [5789], [5790], [5792], [5794], [5795], [5799], [5801], [5802], [5803], [5804], [5805], [5806], [5807], [5808], [5809], [5810], [5811], [5812], [5813], [5814], [5815], [5816], [5817], [5818], [5819], [5820], [5821], [5822], [5823], [5824], [5825], [5826], [5827], [5828], [5829], [5830], [5831], [5832], [5833], [5834], [5835], [5836], [5837],

[5838], [5839], [5840], [5841], [5842], [5843], [5844], [5845], [5846], [5847], [5848], [5849], [5850], [5851], [5852], [5853], [5854], [5855], [5856], [5857], [5858], [5859], [5860], [5861], [5862], [5863], [5864], [5865], [5866], [5867], [5868], [5869], [5870], [5871], [5872], [5873], [5874], [5875], [5876], [5877], [5878], [5879], [5880], [5881], [5882], [5883], [5884], [5885], [5886], [5887], [5888], [5889], [5890], [5891], [5892], [5893], [5894], [5895], [5896], [5897], [5898], [5899], [5900], [5901], [5902], [5903], [5904], [5905], [5906], [5907], [5908], [5909], [5910], [5911], [5912], [5913], [5914], [5915], [5916], [5917], [5918], [5919], [5920], [5921], [5922], [5923], [5924], [5925], [5926], [5927], [5928], [5929], [5930], [5931], [5932], [5933], [5934], [5935], [5936], [5937], [5938], [5939], [5940], [5941], [5942], [5943], [5944], [5945], [5946], [5947], [5948], [5949], [5950], [5952], [5953], [5954], [5955], [5956], [5961], [5962], [5964], [5966], [5967], [5970], [5973], [5974], [5976], [5977], [5979], [5980], [5982], [5983], [5985], [5986], [5988], [5989], [5990], [5992], [5996], [5997], [5998], [5999], [6001], [6002], [6003], [6004], [6005], [6006], [6007], [6008], [6009], [6010], [6011], [6012], [6013], [6014], [6015], [6016], [6017], [6018], [6019], [6020], [6021], [6022], [6023], [6024], [6025], [6026], [6027], [6028], [6029], [6030], [6031], [6032], [6033], [6034], [6035], [6036], [6037], [6038], [6039], [6040], [6041], [6042], [6043], [6044], [6045], [6046], [6047], [6048], [6049], [6050], [6051], [6052], [6053], [6054], [6055], [6056], [6057], [6058], [6059], [6060], [6061], [6062], [6063], [6064], [6065], [6066], [6067], [6068], [6069], [6070], [6071], [6072], [6073], [6074], [6075], [6078], [6081], [6083], [6084], [6085], [6086], [6088], [6090], [6091], [6094], [6095], [6096], [6097], [6098], [6101], [6102], [6104], [6108], [6109], [6110], [6111], [6112], [6113], [6121], [6125], [6127], [6130], [6131], [6132], [6138], [6139], [6140], [6142], [6143], [6147], [6148], [6149], [6151], [6154], [6155], [6157], [6158], [6161], [6162], [6165], [6167], [6168], [6170], [6171], [6173], [6176], [6177], [6178], [6179], [6180], [6181], [6182], [6183], [6184], [6185], [6186], [6187], [6188], [6189], [6190], [6191], [6192], [6193], [6194], [6195], [6196], [6197], [6198], [6199], [6200], [6201], [6202], [6203], [6204], [6205], [6206], [6207], [6208], [6209], [6210], [6211], [6212], [6213], [6214], [6215], [6216], [6217], [6218], [6219], [6220], [6221], [6222], [6223], [6224], [6225], [6226], [6227], [6228], [6229], [6230], [6231], [6232], [6233], [6234], [6235], [6236], [6237], [6238], [6239], [6240], [6241], [6242], [6243], [6244], [6245], [6246], [6247], [6248], [6249], [6250], [6255], [6256], [6264], [6265], [6271], [6274], [6276], [6277], [6278], [6279], [6280], [6281], [6282], [6283], [6284], [6285], [6286], [6287], [6288], [6289], [6290], [6291], [6292], [6293], [6294], [6295], [6296], [6297], [6298], [6299], [6300], [6301], [6302], [6303], [6304], [6305], [6306], [6307], [6308], [6309], [6310], [6311], [6312], [6313], [6314], [6315], [6316], [6317], [6318], [6319], [6320], [6321], [6322], [6323], [6324], [6325], [6326], [6327], [6329], [6332], [6334], [6337], [6338], [6339], [6341], [6342], [6343], [6346], [6349], [6350], [6352], [6353], [6354], [6355], [6358], [6359],

[6360], [6361], [6363], [6366], [6367], [6368], [6369], [6371], [6372], [6373], [6374], [6377], [6379], [6382], [6383], [6391], [6393], [6395], [6397], [6400], [6402], [6403], [6404], [6406], [6407], [6408], [6409], [6410], [6411], [6412], [6414], [6415], [6416], [6417], [6418], [6419], [6420], [6421], [6423], [6424], [6427], [6430], [6431], [6432], [6434], [6437], [6440], [6441], [6445], [6447], [6451], [6452], [6453], [6454], [6455], [6457], [6458], [6459], [6460], [6461], [6462], [6463], [6465], [6468], [6471], [6473], [6474], [6476], [6477], [6478], [6479], [6480], [6481], [6482], [6483], [6484], [6485], [6486], [6487], [6488], [6489], [6490], [6491], [6492], [6493], [6494], [6495], [6496], [6497], [6498], [6499], [6500], [6501], [6504], [6505], [6506], [6507], [6508], [6510], [6511], [6513], [6514], [6515], [6516], [6519], [6520], [6521], [6522], [6524], [6525], [6526], [6527], [6528], [6529], [6530], [6531], [6532], [6533], [6534], [6535], [6536], [6537], [6538], [6539], [6540], [6541], [6542], [6543], [6544], [6545], [6546], [6547], [6548], [6549], [6550], [6551], [6552], [6556], [6561], [6562], [6564], [6565], [6566], [6567], [6568], [6569], [6570], [6571], [6574], [6576], [6577], [6578], [6581], [6583], [6585], [6586], [6587], [6588], [6589], [6590], [6591], [6592], [6594], [6599], [6603], [6604], [6605], [6606], [6610], [6611], [6617], [6620], [6623], [6626], [6627], [6629], [6632], [6635], [6639], [6640], [6642], [6646], [6647], [6648], [6649], [6651], [6652], [6653], [6654], [6655], [6656], [6657], [6658], [6659], [6660], [6661], [6662], [6663], [6664], [6665], [6666], [6667], [6668], [6669], [6670], [6671], [6672], [6673], [6674], [6675], [6677], [6688], [6690], [6698], [6699], [6700], [6701], [6702], [6703], [6704], [6705], [6706], [6707], [6708], [6709], [6710], [6711], [6712], [6713], [6714], [6715], [6716], [6717], [6718], [6719], [6720], [6721], [6722], [6723], [6724], [6725], [6729], [6731], [6740], [6742], [6743], [6747], [6748], [6749], [6752], [6753], [6754], [6757], [6760], [6762], [6765], [6767], [6769], [6770], [6776], [6779], [6780], [6784], [6785], [6792], [6793], [6795], [6798], [6799], [6801], [6802], [6803], [6804], [6805], [6806], [6807], [6808], [6809], [6810], [6811], [6812], [6813], [6814], [6815], [6816], [6817], [6818], [6819], [6820], [6821], [6822], [6823], [6824], [6825], [6826], [6830], [6831], [6836], [6842], [6844], [6845], [6846], [6849], [6850], [6851], [6852], [6853], [6854], [6855], [6856], [6857], [6858], [6859], [6860], [6861], [6862], [6863], [6864], [6865], [6866], [6867], [6868], [6869], [6870], [6871], [6872], [6873], [6874], [6875], [6876], [6877], [6878], [6879], [6880], [6881], [6882], [6883], [6884], [6885], [6886], [6887], [6888], [6889], [6890], [6891], [6892], [6893], [6894], [6895], [6896], [6897], [6898], [6899], [6900], [6901], [6902], [6903], [6904], [6906], [6908], [6909], [6910], [6912], [6913], [6917], [6918], [6919], [6920], [6921], [6923], [6924], [6926], [6929], [6930], [6931], [6932], [6936], [6940], [6942], [6948], [6949], [6951], [6952], [6953], [6954], [6955], [6956], [6957], [6958], [6959], [6960], [6961], [6962], [6963], [6964], [6965], [6966], [6967], [6968], [6969], [6970], [6971], [6972], [6973], [6974], [6975], [6976], [6977], [6980], [6981], [6982], [6984], [6986], [6987], [6988], [6989], [6990], [6991],

[6992], [6993], [6995], [6997], [7003], [7005], [7009], [7012], [7014], [7026], [7027], [7028], [7029], [7030], [7031], [7032], [7033], [7034], [7035], [7036], [7037], [7038], [7039], [7040], [7041], [7042], [7043], [7044], [7045], [7046], [7047], [7048], [7049], [7050], [7051], [7052], [7053], [7054], [7055], [7056], [7057], [7058], [7059], [7060], [7061], [7062], [7063], [7064], [7065], [7066], [7067], [7068], [7069], [7070], [7071], [7072], [7073], [7074], [7075], [7076], [7077], [7078], [7079], [7080], [7081], [7082], [7083], [7084], [7085], [7086], [7087], [7088], [7089], [7090], [7091], [7092], [7093], [7094], [7095], [7096], [7097], [7098], [7099], [7100], [7102], [7108], [7114], [7116], [7120], [7122], [7127], [7129], [7130], [7131], [7133], [7134], [7136], [7137], [7138], [7139], [7141], [7142], [7144], [7145], [7146], [7149], [7152], [7155], [7158], [7160], [7165], [7167], [7168], [7172], [7173], [7174], [7182], [7183], [7184], [7185], [7186], [7187], [7188], [7189], [7190], [7192], [7197], [7198], [7201], [7202], [7203], [7204], [7205], [7207], [7211], [7212], [7214], [7216], [7219], [7224], [7226], [7227], [7228], [7229], [7230], [7231], [7232], [7233], [7234], [7235], [7236], [7237], [7238], [7239], [7240], [7241], [7242], [7243], [7244], [7245], [7246], [7247], [7248], [7249], [7250], [7251], [7252], [7253], [7254], [7255], [7256], [7257], [7258], [7259], [7260], [7261], [7262], [7263], [7264], [7265], [7266], [7267], [7268], [7269], [7270], [7271], [7272], [7273], [7274], [7275], [7276], [7277], [7278], [7279], [7280], [7281], [7282], [7283], [7284], [7285], [7286], [7287], [7288], [7289], [7290], [7291], [7292], [7293], [7294], [7295], [7296], [7297], [7298], [7299], [7300], [7301], [7302], [7303], [7304], [7305], [7306], [7307], [7308], [7309], [7310], [7311], [7312], [7313], [7314], [7315], [7316], [7317], [7318], [7319], [7320], [7321], [7322], [7323], [7324], [7325], [7327], [7330], [7333], [7336], [7344], [7351], [7352], [7353], [7354], [7355], [7356], [7357], [7358], [7359], [7360], [7361], [7362], [7363], [7364], [7365], [7366], [7367], [7368], [7369], [7370], [7371], [7372], [7373], [7374], [7375], [7376], [7377], [7378], [7383], [7385], [7386], [7389], [7391], [7392], [7394], [7395], [7396], [7404], [7405], [7407], [7411], [7422], [7426], [7427], [7428], [7429], [7430], [7431], [7436], [7439], [7440], [7441], [7443], [7444], [7446], [7447], [7448], [7449], [7450], [7451], [7452], [7453], [7454], [7455], [7456], [7457], [7458], [7459], [7460], [7461], [7462], [7463], [7464], [7465], [7466], [7467], [7468], [7469], [7470], [7471], [7472], [7473], [7474], [7475], [7476], [7477], [7478], [7479], [7480], [7481], [7482], [7483], [7484], [7485], [7486], [7487], [7488], [7489], [7490], [7491], [7492], [7493], [7494], [7495], [7496], [7497], [7498], [7499], [7500], [7501], [7502], [7503], [7504], [7505], [7506], [7507], [7508], [7509], [7510], [7511], [7512], [7513], [7514], [7515], [7516], [7517], [7518], [7519], [7520], [7521], [7522], [7523], [7524], [7525], [7526], [7527], [7528], [7533], [7534], [7535], [7539], [7543], [7547], [7549], [7551], [7552], [7553], [7554], [7555], [7556], [7557], [7558], [7559], [7560], [7561], [7562], [7563], [7564], [7565], [7566], [7567], [7568], [7569], [7570], [7571], [7572], [7573], [7574], [7575], [7576], [7577], [7578], [7579],

[7582], [7583], [7584], [7585], [7586], [7587], [7589], [7593], [7595], [7596], [7597], [7601], [7603], [7606], [7607], [7608], [7616], [7618], [7619], [7623], [7625], [7626], [7627], [7628], [7629], [7630], [7631], [7632], [7633], [7634], [7635], [7636], [7637], [7638], [7639], [7640], [7641], [7642], [7643], [7644], [7645], [7646], [7647], [7648], [7649], [7650], [7651], [7658], [7661], [7663], [7665], [7666], [7667], [7668], [7670], [7673], [7675], [7676], [7677], [7678], [7679], [7680], [7681], [7682], [7683], [7684], [7685], [7686], [7687], [7688], [7689], [7690], [7691], [7692], [7693], [7694], [7695], [7696], [7697], [7698], [7699], [7700], [7703], [7709], [7712], [7713], [7714], [7715], [7717], [7718], [7719], [7721], [7722], [7723], [7726], [7727], [7728], [7729], [7730], [7731], [7732], [7733], [7734], [7735], [7736], [7737], [7738], [7739], [7740], [7741], [7742], [7743], [7744], [7745], [7748], [7749], [7750], [7751], [7752], [7753], [7754], [7755], [7756], [7758], [7759], [7760], [7763], [7765], [7766], [7767], [7768], [7769], [7770], [7772], [7773], [7774], [7776], [7777], [7778], [7779], [7780], [7781], [7782], [7783], [7784], [7785], [7786], [7787], [7788], [7789], [7790], [7791], [7792], [7793], [7794], [7795], [7796], [7797], [7798], [7799], [7800], [7801], [7803], [7804], [7805], [7806], [7807], [7808], [7810], [7811], [7812], [7813], [7814], [7815], [7816], [7817], [7819], [7820], [7821], [7826], [7827], [7828], [7829], [7830], [7831], [7832], [7833], [7834], [7835], [7836], [7837], [7838], [7839], [7840], [7841], [7842], [7843], [7844], [7845], [7846], [7847], [7848], [7849], [7850], [7851], [7852], [7853], [7854], [7855], [7856], [7857], [7858], [7859], [7860], [7861], [7862], [7863], [7864], [7865], [7866], [7867], [7868], [7869], [7870], [7871], [7872], [7873], [7874], [7875], [7876], [7877], [7879], [7884], [7885], [7886], [7887], [7889], [7892], [7893], [7895], [7896], [7899], [7900], [7901], [7902], [7904], [7905], [7906], [7907], [7908], [7909], [7912], [7913], [7915], [7916], [7918], [7920], [7923], [7924], [7925], [7926], [7928], [7931], [7933], [7934], [7936], [7937], [7938], [7940], [7941], [7944], [7946], [7951], [7952], [7953], [7954], [7955], [7956], [7957], [7958], [7959], [7960], [7961], [7962], [7963], [7964], [7965], [7966], [7967], [7968], [7969], [7970], [7971], [7972], [7973], [7974], [7975], [7976], [7977], [7978], [7979], [7980], [7981], [7982], [7983], [7984], [7985], [7986], [7987], [7988], [7989], [7990], [7991], [7992], [7993], [7994], [7995], [7996], [7997], [7998], [7999], [8000], [8001], [8002], [8003], [8004], [8005], [8006], [8007], [8008], [8009], [8010], [8011], [8012], [8013], [8014], [8015], [8016], [8017], [8018], [8019], [8020], [8021], [8022], [8023], [8024], [8025], [8026], [8027], [8028], [8029], [8030], [8031], [8032], [8033], [8034], [8035], [8036], [8037], [8038], [8039], [8040], [8041], [8042], [8043], [8044], [8045], [8046], [8047], [8048], [8049], [8050], [8051], [8055], [8056], [8057], [8058], [8062], [8064], [8065], [8066], [8067], [8070], [8072], [8074], [8078], [8081], [8082], [8083], [8084], [8086], [8087], [8088], [8089], [8091], [8092], [8098], [8102], [8105], [8106], [8107], [8110], [8111], [8119], [8123], [8126], [8130], [8133], [8136], [8137], [8140], [8141], [8142], [8143], [8144], [8145], [8147], [8148],

[8149], [8151], [8152], [8153], [8154], [8155], [8156], [8157], [8158], [8159], [8160], [8161], [8162], [8163], [8164], [8165], [8166], [8167], [8168], [8169], [8170], [8171], [8172], [8173], [8174], [8175], [8176], [8177], [8178], [8179], [8180], [8181], [8182], [8183], [8184], [8185], [8186], [8187], [8188], [8189], [8190], [8191], [8192], [8193], [8194], [8195], [8196], [8197], [8198], [8199], [8200], [8201], [8202], [8206], [8207], [8208], [8209], [8210], [8212], [8213], [8216], [8218], [8219], [8223], [8226], [8227], [8228], [8229], [8230], [8231], [8232], [8233], [8234], [8235], [8236], [8237], [8238], [8239], [8240], [8241], [8242], [8243], [8244], [8245], [8246], [8247], [8248], [8249], [8250], [8251], [8254], [8255], [8258], [8259], [8260], [8261], [8262], [8263], [8264], [8266], [8268], [8269], [8270], [8271], [8272], [8273], [8274], [8276], [8278], [8279], [8280], [8281], [8282], [8283], [8284], [8285], [8287], [8289], [8292], [8293], [8295], [8297], [8298], [8299], [8301], [8303], [8306], [8307], [8311], [8312], [8314], [8318], [8319], [8320], [8322], [8323], [8326], [8328], [8331], [8332], [8333], [8335], [8338], [8339], [8342], [8343], [8345], [8347], [8353], [8354], [8358], [8360], [8361], [8362], [8366], [8367], [8374], [8376], [8377], [8378], [8379], [8380], [8381], [8382], [8383], [8384], [8385], [8386], [8387], [8388], [8389], [8390], [8391], [8392], [8393], [8394], [8395], [8396], [8397], [8398], [8399], [8400], [8403], [8404], [8405], [8406], [8407], [8409], [8410], [8413], [8414], [8421], [8422], [8424], [8426], [8427], [8428], [8429], [8431], [8434], [8435], [8438], [8439], [8442], [8446], [8451], [8452], [8455], [8456], [8457], [8460], [8461], [8462], [8463], [8465], [8467], [8468], [8474], [8476], [8477], [8478], [8479], [8480], [8481], [8482], [8483], [8484], [8485], [8486], [8487], [8488], [8489], [8490], [8491], [8492], [8493], [8494], [8495], [8496], [8497], [8498], [8499], [8500], [8501], [8502], [8503], [8504], [8505], [8506], [8507], [8508], [8509], [8510], [8511], [8512], [8513], [8514], [8515], [8516], [8517], [8518], [8519], [8520], [8521], [8522], [8523], [8524], [8525], [8526], [8527], [8534], [8540], [8542], [8543], [8545], [8546], [8547], [8548], [8551], [8552], [8553], [8554], [8555], [8556], [8557], [8558], [8559], [8560], [8561], [8562], [8563], [8564], [8565], [8566], [8567], [8568], [8569], [8570], [8571], [8572], [8573], [8574], [8575], [8576], [8578], [8579], [8580], [8581], [8585], [8586], [8587], [8592], [8594], [8595], [8598], [8599], [8601], [8602], [8603], [8604], [8606], [8607], [8608], [8609], [8610], [8611], [8612], [8613], [8614], [8615], [8617], [8618], [8619], [8620], [8621], [8623], [8624], [8625], [8626], [8627], [8628], [8629], [8630], [8631], [8632], [8633], [8634], [8635], [8636], [8637], [8638], [8639], [8640], [8641], [8642], [8643], [8644], [8645], [8646], [8647], [8648], [8649], [8650], [8651], [8652], [8653], [8654], [8655], [8656], [8657], [8658], [8659], [8660], [8661], [8662], [8663], [8664], [8665], [8666], [8667], [8668], [8669], [8670], [8671], [8672], [8673], [8674], [8675], [8676], [8677], [8678], [8679], [8680], [8681], [8682], [8683], [8684], [8685], [8686], [8687], [8688], [8689], [8690], [8691], [8692], [8693], [8694], [8695], [8696], [8697], [8698], [8699], [8700], [8702], [8703], [8704], [8705], [8706],

[8707], [8710], [8711], [8712], [8713], [8714], [8715], [8716], [8717], [8718], [8719], [8720], [8722], [8723], [8724], [8726], [8727], [8728], [8729], [8730], [8731], [8732], [8733], [8734], [8735], [8736], [8737], [8738], [8739], [8740], [8741], [8742], [8743], [8744], [8745], [8746], [8747], [8748], [8749], [8750], [8751], [8752], [8753], [8754], [8755], [8756], [8757], [8758], [8759], [8760], [8761], [8762], [8763], [8764], [8765], [8766], [8767], [8768], [8769], [8770], [8771], [8772], [8773], [8774], [8775], [8776], [8777], [8778], [8779], [8780], [8781], [8782], [8783], [8784], [8785], [8786], [8787], [8788], [8789], [8790], [8791], [8792], [8793], [8794], [8795], [8796], [8797], [8798], [8799], [8800], [8801], [8802], [8803], [8804], [8805], [8806], [8807], [8808], [8809], [8811], [8812], [8813], [8814], [8815], [8816], [8817], [8818], [8821], [8822], [8824], [8826], [8828], [8829], [8831], [8833], [8834], [8835], [8836], [8837], [8838], [8840], [8842], [8844], [8846], [8849], [8851], [8852], [8853], [8854], [8855], [8856], [8857], [8858], [8859], [8860], [8861], [8862], [8863], [8864], [8865], [8866], [8867], [8868], [8869], [8870], [8871], [8872], [8873], [8874], [8875], [8877], [8878], [8881], [8883], [8884], [8885], [8886], [8889], [8891], [8892], [8893], [8894], [8896], [8897], [8904], [8906], [8914], [8915], [8916], [8919], [8922], [8924], [8925], [8926], [8927], [8928], [8929], [8930], [8931], [8932], [8933], [8934], [8935], [8936], [8937], [8938], [8939], [8940], [8941], [8942], [8943], [8944], [8945], [8946], [8947], [8948], [8949], [8950], [8952], [8954], [8956], [8957], [8958], [8960], [8961], [8963], [8966], [8968], [8970], [8973], [8974], [8976], [8977], [8978], [8979], [8980], [8981], [8982], [8983], [8984], [8985], [8986], [8987], [8988], [8989], [8990], [8991], [8992], [8993], [8994], [8995], [8996], [8997], [8998], [8999], [9000], [9001], [9002], [9003], [9004], [9010], [9018], [9021], [9024], [9027], [9028], [9032], [9033], [9034], [9035], [9036], [9038], [9039], [9041], [9042], [9043], [9044], [9047], [9048], [9049], [9051], [9052], [9053], [9054], [9055], [9056], [9057], [9058], [9059], [9060], [9061], [9062], [9063], [9064], [9065], [9066], [9067], [9068], [9069], [9070], [9071], [9072], [9073], [9074], [9075], [9076], [9077], [9078], [9079], [9080], [9081], [9082], [9083], [9084], [9085], [9086], [9087], [9088], [9089], [9090], [9091], [9092], [9093], [9094], [9095], [9096], [9097], [9098], [9099], [9100], [9101], [9102], [9103], [9104], [9105], [9106], [9107], [9108], [9109], [9110], [9111], [9112], [9113], [9114], [9115], [9116], [9117], [9118], [9119], [9120], [9121], [9122], [9123], [9124], [9125], [9127], [9130], [9131], [9132], [9134], [9135], [9139], [9140], [9144], [9146], [9149], [9151], [9152], [9154], [9155], [9156], [9159], [9160], [9164], [9167], [9168], [9169], [9170], [9171], [9174], [9176], [9177], [9178], [9179], [9180], [9181], [9182], [9183], [9184], [9185], [9186], [9187], [9188], [9189], [9190], [9191], [9192], [9193], [9194], [9195], [9196], [9197], [9198], [9199], [9200], [9201], [9202], [9203], [9204], [9205], [9206], [9207], [9208], [9209], [9210], [9211], [9212], [9213], [9214], [9215], [9216], [9217], [9218], [9219], [9220], [9221], [9222], [9223], [9224], [9225], [9226], [9227], [9228], [9229], [9230], [9231], [9232], [9233],

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## 1) Introduction

Aortic aneurysm (AA) represents a critical cardiovascular pathology characterized by localized dilation of the aorta, encompassing various subtypes such as abdominal aortic aneurysm (AAA), thoracic aortic aneurysm (TAA), and thoracoabdominal aortic aneurysm (TAAA). This condition carries a significant risk of rupture or dissection, leading to high morbidity and mortality. Recent research endeavors have focused on elucidating its complex pathogenesis, advancing diagnostic and prognostic tools, refining surgical and endovascular repair techniques, and identifying novel

therapeutic targets to improve patient outcomes.

## 2) Aim

To synthesize recent findings on aortic aneurysm, covering risk factors, diagnostic and prognostic advancements, treatment modalities, and underlying molecular mechanisms.

## 3) Methods

Systematic review with multilayer AI research agent: keyword normalization, retrieval & structuring, and paper synthesis (see SAIMSARA About section for details).

- **Bias:** Qualitatively inferred from study design fields.

## 4) Results

### 4.1 Study characteristics

The included studies predominantly employed mixed designs, often combining clinical data with computational modeling or experimental approaches, alongside a notable number of prospective and retrospective cohort studies. Populations varied widely, including UK Biobank participants, hypertensive patients, AAA patients, octogenarians, and specific case reports, with follow-up periods ranging from 30 days to 12.56 years, or not specified for experimental studies.

### 4.2 Main numerical result aligned to the query

Hypertension is a significant risk factor for aortic aneurysm, with prospective cohort studies indicating a 1.17-fold increased risk of aortic aneurysm (AA) overall and most subtypes in hypertensive individuals compared to normotensive controls (Hazard Ratio [HR] 1.17, 95% Confidence Interval [CI] 1.08-1.27) [1].

### 4.3 Topic synthesis

- **Risk Factors and Pathogenesis:** Hypertension (HR 1.17 [1]), high diastolic blood pressure (HR 1.74 [1]), metabolic syndrome (MetS) (Odds Ratio [OR] 1.308 [364]), frailty (HR 1.82 [247]), current smoking (HR 17.68 [6008]), genetic liability to migraine (OR 1.18 [1721]), elevated apolipoprotein B (ApoB) (OR 1.34 [9784]), high total cholesterol (OR 1.74 [9547]), and fluoroquinolone use (OR 1.98 [5909]) are associated with increased AA risk. Longer diabetes duration and metformin use are associated with decreased thoracic aortic aneurysm and dissection (TAAD) risk [281].
- **Diagnosis and Prognosis:** Z-score-based approaches improve detection of TAA/dissection (57% detection rate at 3% false positive rate [FPR]) [38]. Deep learning models

(TotalSegmentor) accurately segment AAAs on computed tomography (CT) (Sorensen-Dice 0.89) [134]. Retinal vascular features are associated with AA risk [539]. A multivariable risk model incorporating demographic and clinical factors predicts AAA onset with an area under the curve (AUC) of 0.807 [758].

- **Surgical and Endovascular Repair:** Open surgery is still necessary for some AAAs due to anatomical constraints [80]. Complex endovascular aneurysm repair (cEVAR) demonstrates fewer complications and more favorable perioperative outcomes compared to open surgical repair (OSR) in octogenarians for juxtarenal abdominal aortic aneurysm (JRAAA) [82]. The EndoVascular graft shows good 2-year outcomes for complex abdominal and TAAA repair (90.3% overall survival) [189]. Surgeon volume is associated with increased technical success rates and improved outcomes in complex AAA repair [2610, 6163].
- **Complications of Repair:** Incisional hernias are common after open AAA/iliac artery aneurysm (IAA) repair (29%) [261]. Type II endoleaks (T2ELs) are frequently observed after endovascular aneurysm repair (EVAR) (16-35%) [20446, 1550, 5233, 13497], and sac prefilling with fibrin glue/coil can prevent them [319, 7150]. Aneurysm volume analysis is more sensitive than diameter for detecting sac enlargement post-EVAR [303]. Acute kidney injury (AKI) is a common complication (3.2-38.4%) [1683, 1702, 7732, 16134, 17944].
- **Pharmacological Interventions:** Statins prevent AAA progression [1213]. SGLT2 inhibitor (SGLT2i) therapy may be associated with a lower risk of AA [255]. Metformin is associated with decreased TAAD risk [281] but negatively impacts sac shrinkage after EVAR [3193]. Angiotensin-converting enzyme inhibitors (ACEi) are associated with a reduced risk of AAA rupture [6205]. Aged garlic extract attenuates AAA formation by inhibiting matrix metalloproteinase 9 (MMP9) [659].
- **Emerging Technologies:** Computational modeling integrated with clinical data evaluates genetic variants in TAA/dissection [16]. Patient-specific, non-invasive methods using 4D-CT angiography (CTA) and blood pressure data assess AAA wall integrity [31]. Deep learning-guided point-of-care ultrasound (POCUS) is effective for AAA screening (AUC 0.975) [5552]. Finite element modeling accurately predicts endoprosthesis deployment [1605] and rupture risk [441, 5807, 15528].
- **Genetic and Molecular Mechanisms:** Genome-wide association studies (GWAS) identified 24 susceptibility loci for AA/dissection (AAD) [657]. Dysregulation of the circ\_0000006/miR-483-5p/KDM2B axis is observed in aortic dissection (AD) progression [618]. Zinc finger protein 36 (ZFP36) protects against AAA formation [54]. Calcineurin (Cn) in smooth muscle cells (SMCs) is required for Angiotensin-II (Ang-II)-induced AAA [3964, 8349]. Necroptosis is implicated in AAA pathogenesis [2649, 2888, 3068].
- **Public Health and Screening:** Population-based pilot screening programs for AAA have been launched in the Czech Republic [491] and evaluated in Sweden [1776]. Point-of-care ultrasound (POCUS) is highly accurate for diagnosing AAA in the emergency department (ED)

(sensitivity 98.33%, specificity 99.84%) [3178]. The COVID-19 pandemic significantly reduced elective aortic aneurysm repairs [2951, 7009, 12887, 11378, 8346].

- **Patient Outcomes and Disparities:** Frailty is an independent risk factor for long-term AAA risk [247] and mortality after EVAR [731, 6401]. Chronic kidney disease (CKD) is a stronger predictor for mortality after AAA repair than the Charlson Comorbidity Index (CCI) [791]. Women have higher risk of death after AAA repair [2053] and worse long-term survival after open repair [948]. Patient-surgeon racial and ethnic concordance was associated with lower postoperative readmission and length of stay for Hispanic patients undergoing common surgical procedures, including AAA repair [5935].

## 5) Discussion

### 5.1 Principal finding

Hypertension is a significant risk factor for aortic aneurysm, with prospective cohort studies indicating a 1.17-fold increased risk of aortic aneurysm overall and most subtypes in hypertensive individuals compared to normotensive controls [1].

### 5.2 Clinical implications

- **Enhanced Risk Stratification:** The strong association of hypertension, frailty, and metabolic syndrome with AA risk [1, 247, 364] necessitates systematic assessment of these factors in clinical practice to identify high-risk individuals for targeted screening and preventive strategies.
- **Improved Diagnostic Tools:** Z-score-based approaches for TAA/dissection detection [38] and deep learning-guided POCUS for AAA screening [5552] offer more accurate and accessible methods for early diagnosis.
- **Personalized Treatment and Surveillance:** Aneurysm volume analysis is more sensitive than diameter for detecting sac enlargement post-EVAR [303], and specific endograft designs (e.g., Gore C3 Excluder [600]) demonstrate long-term durability, informing tailored surveillance protocols.
- **Perioperative Optimization:** Preoperative comprehensive geriatric assessment [17767] and exercise training [10800, 943] can reduce complications and improve hospital length of stay in older patients undergoing vascular surgery, highlighting the importance of multidisciplinary care.
- **Management of Endoleaks:** Sac prefilling with fibrin glue and/or coil can effectively prevent Type II endoleaks (T2ELs) [319], and diffusion-weighted imaging (DWI) with apparent diffusion coefficient (ADC) mapping combined with noncontrast magnetic

resonance angiography (NC-MRA) is accurate for detecting endoleaks [162], guiding timely interventions to prevent aneurysm growth.

### 5.3 Research implications / key gaps

- **Long-Term Efficacy of Novel Therapeutics:** Further randomized controlled trials (RCTs) are needed to confirm the long-term efficacy and safety of emerging pharmacological interventions, such as SGLT2 inhibitors [255] or metformin [1456, 3193], in preventing AA progression or improving outcomes after repair.
- **Standardization of AI/ML Models:** While deep learning shows promise for diagnosis and risk prediction [134, 1690, 5552], robust, multicenter validation studies are required to standardize models and establish their generalizability across diverse patient populations and imaging modalities.
- **Understanding Sex and Racial Disparities:** Research should investigate the underlying biological and socioeconomic factors contributing to observed disparities in AAA incidence, rupture risk (e.g., higher in women [2940]), and postoperative outcomes (e.g., worse long-term survival in women after open repair [948], higher mortality in Black men [10367]).
- **Biomechanical Rupture Prediction:** Advanced computational models incorporating geometry, wall stiffness, and intraluminal thrombus characteristics [441, 5807, 15528] need further prospective validation to improve personalized rupture risk assessment beyond current diameter-based guidelines.
- **Mechanisms of Post-EVAR Complications:** Studies are needed to elucidate the precise mechanisms driving post-EVAR complications like T2ELs [2630] and iliac limb occlusion (ILO) [3158], and to develop targeted prevention strategies, potentially leveraging biomarkers like D-dimer [5010, 5901].

### 5.4 Limitations

- **Heterogeneous Study Designs** — The diverse range of study designs (cohort, mixed, experimental, case reports) limits direct comparison and meta-analysis of outcomes.
- **Varied Follow-up Durations** — Follow-up periods varied significantly, from days to over a decade, making it challenging to draw consistent conclusions about long-term outcomes for all interventions and risk factors.
- **Population Specificity**

### 5.4 Limitations

- **Population Specificity** — Many studies focused on specific populations (e.g., UK Biobank participants, octogenarians, patients with specific comorbidities), potentially limiting the generalizability of findings to broader patient demographics [1, 82, 247].
- **Variability in Definitions** — Definitions of outcomes, particularly for endoleaks or aneurysm growth, varied across studies, complicating direct comparisons and synthesis of evidence [303, 13497].
- **Qualitative Bias Assessment** — Bias was qualitatively inferred from study design, and formal risk of bias assessment was not performed, which might affect the certainty of the evidence.
- **Limited Long-Term Data** — While some studies offered long-term follow-up, many interventions, particularly novel endovascular techniques or pharmacological agents, still lack extensive long-term data on durability and patient-centered outcomes [600, 189].
- **Lack of Mechanistic Detail** — While many studies identified associations or potential targets, the precise molecular and cellular mechanisms underlying some observed phenomena (e.g., the protective effect of SGLT2i [255]) often require further elucidation.

## 5.5 Future directions

- **Comparative Effectiveness Research** — Conduct large-scale, prospective comparative effectiveness studies to directly compare different surgical and endovascular repair techniques (e.g., OSR vs. FEVAR in specific patient subgroups) on long-term patient-reported outcomes and cost-effectiveness [1165, 235].
- **Biomarker Validation Trials** — Validate promising diagnostic and prognostic biomarkers (e.g., plasma proteins [41], ATG4B [4735], D-dimer [5010]) in diverse, independent cohorts to integrate them into clinical decision-making algorithms.
- **AI-Driven Personalized Medicine** — Develop and rigorously validate AI/machine learning models for personalized risk prediction of aneurysm growth and rupture, treatment selection, and complication management, using multimodal data (imaging, genomics, clinical) [1690, 2765, 3483].
- **Genetic and Molecular Pathway Targeting** — Further investigate the therapeutic potential of targeting identified molecular pathways (e.g., NF-κB pathway [204, 3917], SIRT3 activation [2747], calcineurin inhibition [3964]) in preclinical models and early-phase clinical trials.
- **Optimizing Screening Programs** — Evaluate the cost-effectiveness and impact of expanding population-based AAA screening programs to broader demographics, potentially incorporating polygenic risk scores (PRS) to refine screening eligibility and timing [491, 1776, 2765].

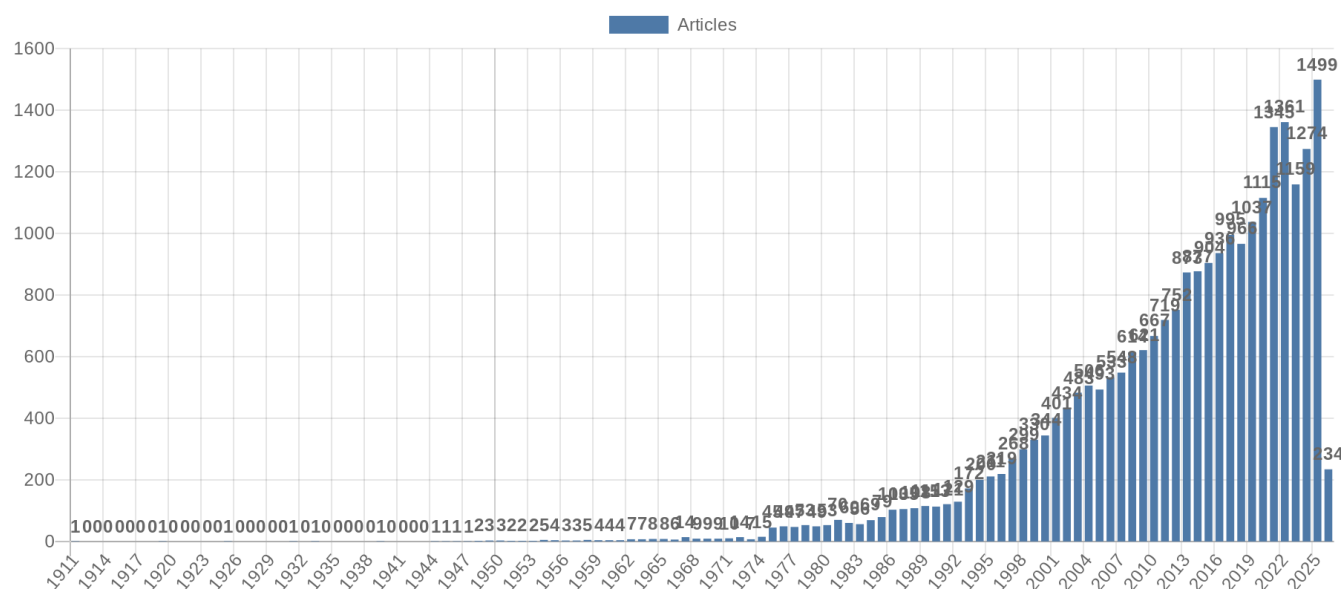
## 6) Conclusion

Hypertension is a significant risk factor for aortic aneurysm, with prospective cohort studies indicating a 1.17-fold increased risk of aortic aneurysm overall and most subtypes in hypertensive individuals compared to normotensive controls [1]. The findings underscore the pervasive influence of cardiovascular risk factors and the ongoing evolution of diagnostic, prognostic, and therapeutic strategies for aortic aneurysm. The heterogeneity in study designs and varied follow-up durations remains a key limitation, affecting the certainty of some conclusions. Clinicians should prioritize comprehensive risk factor management, including aggressive blood pressure control, and consider emerging diagnostic tools and personalized treatment approaches for improved patient care.

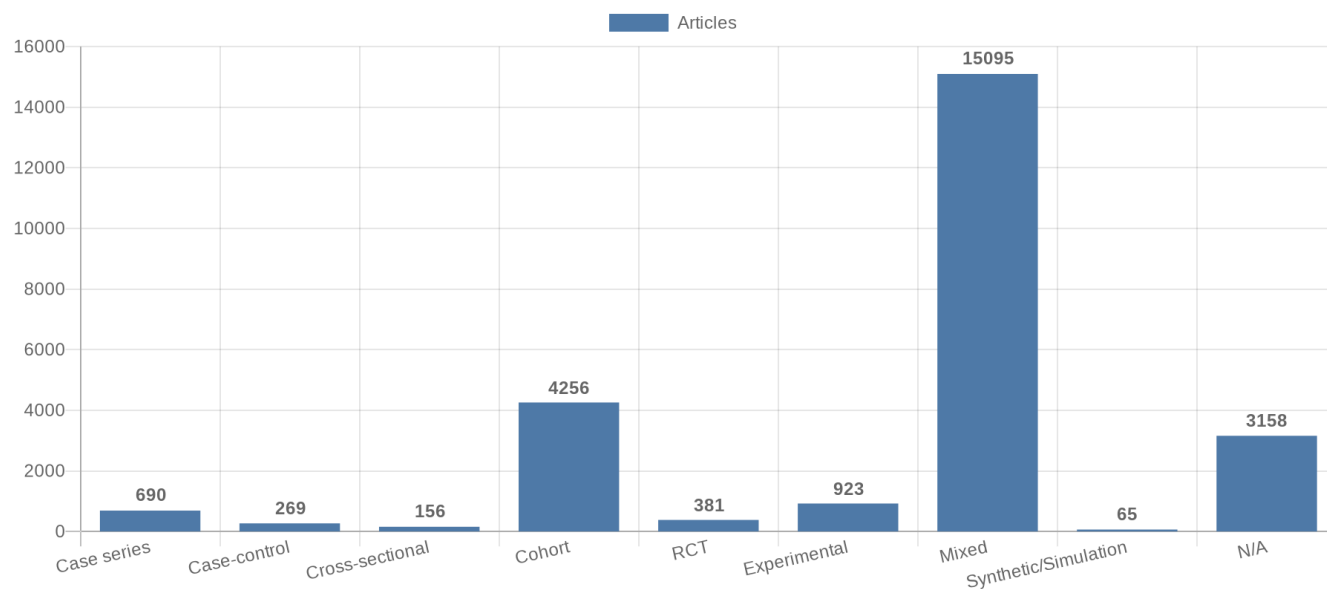
## References

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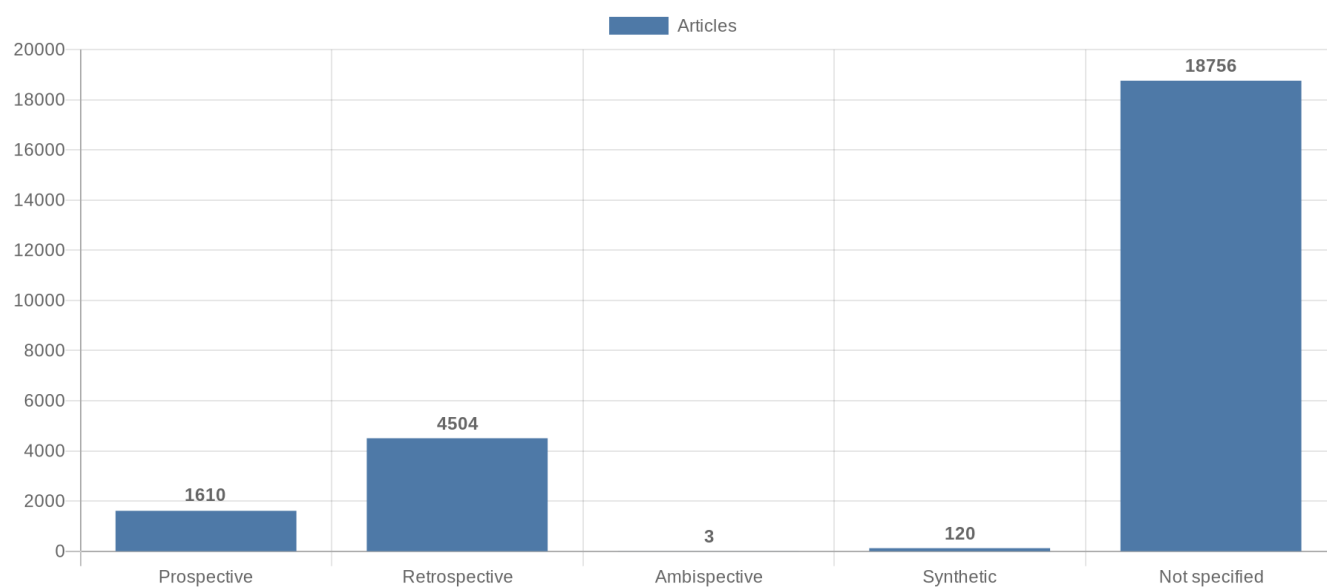
**Figure 1. Publication-year distribution of included originals**



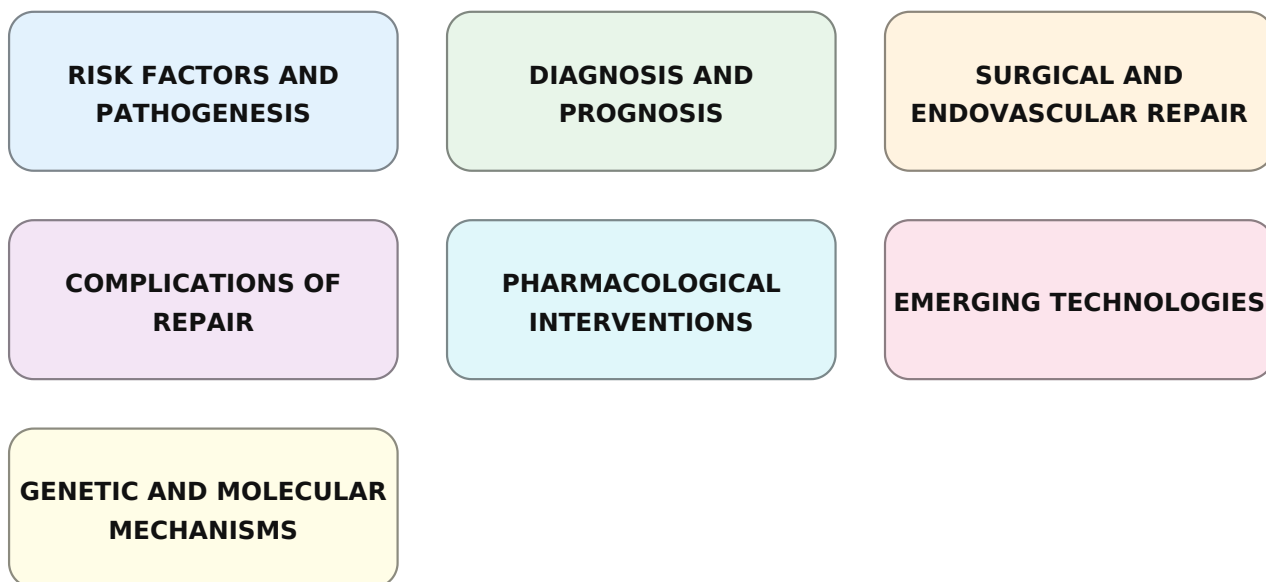
**Figure 2. Study-design distribution of included originals**



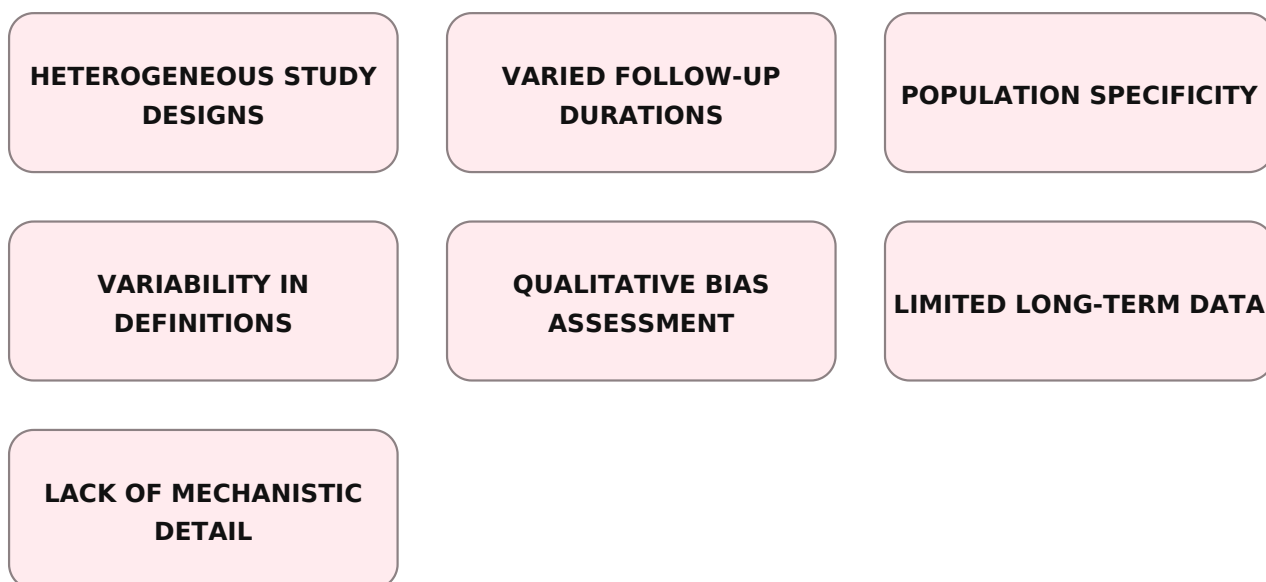
**Figure 3. Study-type (directionality) distribution of included originals**



**Figure 4. Main extracted research topics**



**Figure 5. Limitations of current studies (topics)**



**Figure 6. Future research directions (topics)**

