

```

# [0]: a = x , b = x, start = 0, rst = 1, valid = x, result= x
# [2]: a = x , b = x, start = 0, rst = 1, valid = 0, result= 0
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# [22]: a = 36 , b = 129, start = 0, rst = 0, valid = 0, result= 18
# [26]: a = 36 , b = 129, start = 0, rst = 0, valid = 0, result= 9
# [30]: a = 36 , b = 129, start = 0, rst = 0, valid = 0, result= 16516
# [34]: a = 36 , b = 129, start = 0, rst = 0, valid = 0, result= 8258
# [38]: a = 36 , b = 129, start = 0, rst = 0, valid = 0, result= 4129
# [42]: a = 36 , b = 129, start = 0, rst = 0, valid = 0, result= 18576
# [46]: a = 36 , b = 129, start = 0, rst = 0, valid = 0, result= 9288
# [50]: a = 36 , b = 129, start = 0, rst = 0, valid = 1, result= 4644
# [54]: a = 36 , b = 129, start = 0, rst = 0, valid = 0, result= 4644
# [58]: a = 36 , b = 129, start = 0, rst = 0, valid = 0, result= 36
# [115]: a = 9 , b = 99, start = 1, rst = 0, valid = 0, result= 36
# [120]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 36
# [122]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 9
# [126]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 12676
# [130]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 6338
# [134]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 3169
# [138]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 14256
# [142]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 7128
# [146]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 3564
# [150]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 1782
# [154]: a = 9 , b = 99, start = 0, rst = 0, valid = 1, result= 891
# [158]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 891
# [162]: a = 9 , b = 99, start = 0, rst = 0, valid = 0, result= 123
# [220]: a = 13 , b = 141, start = 1, rst = 0, valid = 0, result= 123
# [225]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 123
# [226]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 13
# [230]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 18054
# [234]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 9027
# [238]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 22561
# [242]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 29328
# [246]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 14664
# [250]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 7332
# [254]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 3666
# [258]: a = 13 , b = 141, start = 0, rst = 0, valid = 1, result= 1833
# [262]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 1833
# [266]: a = 13 , b = 141, start = 0, rst = 0, valid = 0, result= 41
# [325]: a = 101 , b = 18, start = 1, rst = 0, valid = 0, result= 41
# [330]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 101
# [338]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 2354
# [342]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 1177
# [346]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 2892
# [350]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 1446
# [354]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 723
# [358]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 2665
# [362]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 3636
# [366]: a = 101 , b = 18, start = 0, rst = 0, valid = 1, result= 1818
# [370]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 1818
# [374]: a = 101 , b = 18, start = 0, rst = 0, valid = 0, result= 26
# [430]: a = 1 , b = 13, start = 1, rst = 0, valid = 0, result= 26
# [435]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 26
# [438]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 1
# [442]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 1664
# [446]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 832
# [450]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 416

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# [454]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 208
# [458]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 104
# [462]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 52
# [466]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 26
# [470]: a = 1 , b = 13, start = 0, rst = 0, valid = 1, result= 13
# [474]: a = 1 , b = 13, start = 0, rst = 0, valid = 0, result= 13
# [535]: a = 118 , b = 61, start = 1, rst = 0, valid = 0, result= 13
# [540]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 13
# [542]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 118
# [546]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 59
# [550]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 7837
# [554]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 11726
# [558]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 5863
# [562]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 10739
# [566]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 13177
# [570]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 14396
# [574]: a = 118 , b = 61, start = 0, rst = 0, valid = 1, result= 7198
# [578]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 7198
# [582]: a = 118 , b = 61, start = 0, rst = 0, valid = 0, result= 30
# [640]: a = 237 , b = 140, start = 1, rst = 0, valid = 0, result= 30
# [645]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 30
# [646]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 237
# [650]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 18038
# [654]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 9019
# [658]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 22429
# [662]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 29134
# [666]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 14567
# [670]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 25203
# [674]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 30521
# [678]: a = 237 , b = 140, start = 0, rst = 0, valid = 1, result= 33180
# [682]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 33180
# [686]: a = 237 , b = 140, start = 0, rst = 0, valid = 0, result= 156
# [745]: a = 249 , b = 198, start = 1, rst = 0, valid = 0, result= 156
# [750]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 249
# [758]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 25468
# [762]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 12734
# [766]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 6367
# [770]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 28527
# [774]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 39607
# [778]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 45147
# [782]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 47917
# [786]: a = 249 , b = 198, start = 0, rst = 0, valid = 1, result= 49302
# [790]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 49302
# [794]: a = 249 , b = 198, start = 0, rst = 0, valid = 0, result= 150
# [850]: a = 197 , b = 170, start = 1, rst = 0, valid = 0, result= 150
# [855]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 150
# [858]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 197
# [862]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 21858
# [866]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 10929
# [870]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 27224
# [874]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 13612
# [878]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 6806
# [882]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 3403
# [886]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 23461
# [890]: a = 197 , b = 170, start = 0, rst = 0, valid = 1, result= 33490
# [894]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 33490
# [898]: a = 197 , b = 170, start = 0, rst = 0, valid = 0, result= 210
# [955]: a = 229 , b = 119, start = 1, rst = 0, valid = 0, result= 210
# [960]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 210
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# [966]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 15346
# [970]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 7673
# [974]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 19068
# [978]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 9534
# [982]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 4767
# [986]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 17615
# [990]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 24039
# [994]: a = 229 , b = 119, start = 0, rst = 0, valid = 1, result= 27251
# [998]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 27251
# [1002]: a = 229 , b = 119, start = 0, rst = 0, valid = 0, result= 115
# [1060]: a = 18 , b = 143, start = 1, rst = 0, valid = 0, result= 115
# [1065]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 115
# [1066]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 18
# [1070]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 9
# [1074]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 18308
# [1078]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 9154
# [1082]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 4577
# [1086]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 20592
# [1090]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 10296
# [1094]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 5148
# [1098]: a = 18 , b = 143, start = 0, rst = 0, valid = 1, result= 2574
# [1102]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 2574
# [1106]: a = 18 , b = 143, start = 0, rst = 0, valid = 0, result= 14
# [1165]: a = 242 , b = 206, start = 1, rst = 0, valid = 0, result= 14
# [1170]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 242
# [1178]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 121
# [1182]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 26428
# [1186]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 13214
# [1190]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 6607
# [1194]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 29671
# [1198]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 41203
# [1202]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 46969
# [1206]: a = 242 , b = 206, start = 0, rst = 0, valid = 1, result= 49852
# [1210]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 49852
# [1214]: a = 242 , b = 206, start = 0, rst = 0, valid = 0, result= 188
# [1270]: a = 232 , b = 197, start = 1, rst = 0, valid = 0, result= 188
# [1275]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 188
# [1278]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 232
# [1282]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 116
# [1286]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 58
# [1290]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 29
# [1294]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 25230
# [1298]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 12615
# [1302]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 31523
# [1306]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 40977
# [1310]: a = 232 , b = 197, start = 0, rst = 0, valid = 1, result= 45704
# [1314]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 45704
# [1318]: a = 232 , b = 197, start = 0, rst = 0, valid = 0, result= 136
# [1375]: a = 92 , b = 189, start = 1, rst = 0, valid = 0, result= 136
# [1380]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 136
# [1382]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 92
# [1386]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 46
# [1390]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 23
# [1394]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 24203
# [1398]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 36293
# [1402]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 42338
# [1406]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 21169
# [1410]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 34776
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# [1414]: a = 92 , b = 189, start = 0, rst = 0, valid = 1, result= 17388
# [1418]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 17388
# [1422]: a = 92 , b = 189, start = 0, rst = 0, valid = 0, result= 236
# [1480]: a = 45 , b = 101, start = 1, rst = 0, valid = 0, result= 236
# [1485]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 236
# [1486]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 45
# [1490]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 12950
# [1494]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 6475
# [1498]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 16165
# [1502]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 21010
# [1506]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 10505
# [1510]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 18180
# [1514]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 9090
# [1518]: a = 45 , b = 101, start = 0, rst = 0, valid = 1, result= 4545
# [1522]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 4545
# [1526]: a = 45 , b = 101, start = 0, rst = 0, valid = 0, result= 193
# [1585]: a = 99 , b = 10, start = 1, rst = 0, valid = 0, result= 193
# [1590]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 99
# [1598]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 1329
# [1602]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 1944
# [1606]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 972
# [1610]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 486
# [1614]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 243
# [1618]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 1401
# [1622]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 1980
# [1626]: a = 99 , b = 10, start = 0, rst = 0, valid = 1, result= 990
# [1630]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 990
# [1634]: a = 99 , b = 10, start = 0, rst = 0, valid = 0, result= 222
# [1690]: a = 128 , b = 32, start = 1, rst = 0, valid = 0, result= 222
# [1695]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 222
# [1698]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 128
# [1702]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 64
# [1706]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 32
# [1710]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 16
# [1714]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 8
# [1718]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 4
# [1722]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 2
# [1726]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 1
# [1730]: a = 128 , b = 32, start = 0, rst = 0, valid = 1, result= 4096
# [1734]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 4096
# [1738]: a = 128 , b = 32, start = 0, rst = 0, valid = 0, result= 0
# [1795]: a = 170 , b = 157, start = 1, rst = 0, valid = 0, result= 0
# [1800]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 0
# [1802]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 170
# [1806]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 85
# [1810]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 20138
# [1814]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 10069
# [1818]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 25130
# [1822]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 12565
# [1826]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 26378
# [1830]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 13189
# [1834]: a = 170 , b = 157, start = 0, rst = 0, valid = 1, result= 26690
# [1838]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 26690
# [1842]: a = 170 , b = 157, start = 0, rst = 0, valid = 0, result= 66
# [1900]: a = 150 , b = 19, start = 1, rst = 0, valid = 0, result= 66
# [1905]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 66
# [1906]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 150
# [1910]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 75
# [1914]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 2469

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# [1918]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 3666
# [1922]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 1833
# [1926]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 3348
# [1930]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 1674
# [1934]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 837
# [1938]: a = 150 , b = 19, start = 0, rst = 0, valid = 1, result= 2850
# [1942]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 2850
# [1946]: a = 150 , b = 19, start = 0, rst = 0, valid = 0, result= 34
# [2005]: a = 13 , b = 83, start = 1, rst = 0, valid = 0, result= 34
# [2010]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 13
# [2018]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 10630
# [2022]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 5315
# [2026]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 13281
# [2030]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 17264
# [2034]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 8632
# [2038]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 4316
# [2042]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 2158
# [2046]: a = 13 , b = 83, start = 0, rst = 0, valid = 1, result= 1079
# [2050]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 1079
# [2054]: a = 13 , b = 83, start = 0, rst = 0, valid = 0, result= 55
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