

PCA

2023-03-16

```
# Go to the MD project folder before running the script
dir <- "C:/Users/polcg/repos/MD" # for some reason the it can't access current directory
# Import preprocessed data
# db <- read.csv(paste0(dir, "/data/Preprocessed_data.csv"), header=T, sep=",", strip.white = TRUE) # tak

# read dataframe back in from RDS file
db <- readRDS(paste0(dir, "/data/Preprocessed_data_rds.rds"))

# Check if there are any missing values, there should not be because they have been imputed, or removed
sum(is.na(db))
```

```
## [1] 0
```

```
# get number of missing values by column
na_counts <- colSums(is.na(db))
```

```
objects()
```

```
## [1] "db"          "dir"          "na_counts"
```

```
attributes(db)
```

```
## $names
## [1] "age"
## [2] "class.of.worker"
## [3] "detailed.industry.recode"
## [4] "detailed.occupation.recode"
## [5] "education"
## [6] "wage.per.hour"
## [7] "marital.stat"
## [8] "major.industry.code"
## [9] "major.occupation.code"
## [10] "race"
## [11] "hispanic.origin"
## [12] "sex"
## [13] "full.or.part.time.employment.stat"
## [14] "capital.gains"
## [15] "capital.losses"
## [16] "dividends.from.stocks"
## [17] "tax.filer.stat"
## [18] "detailed.household.and.family.stat"
## [19] "detailed.household.summary.in.household"
## [20] "instance.weight"
## [21] "num.persons.worked.for.employer"
## [22] "country.of.birth.father"
## [23] "country.of.birth.mother"
## [24] "country.of.birth.self"
```

```

## [25] "citizenship"
## [26] "veterans.benefits"
## [27] "weeks.worked.in.year"
## [28] "income"
##
## $row.names
##      [1] "1"      "2"      "3"      "4"      "5"      "6"      "7"      "8"      "9"
##     [10] "10"     "11"     "12"     "13"     "14"     "15"     "16"     "17"     "18"
##     [19] "19"     "20"     "21"     "22"     "23"     "24"     "25"     "26"     "27"
##     [28] "28"     "29"     "30"     "31"     "32"     "33"     "34"     "35"     "36"
##     [37] "37"     "38"     "39"     "40"     "41"     "42"     "43"     "44"     "45"
##     [46] "46"     "47"     "48"     "49"     "50"     "51"     "52"     "53"     "54"
##     [55] "55"     "56"     "57"     "58"     "59"     "60"     "61"     "62"     "63"
##     [64] "64"     "65"     "66"     "67"     "68"     "69"     "70"     "71"     "72"
##     [73] "73"     "74"     "75"     "76"     "77"     "78"     "79"     "80"     "81"
##     [82] "82"     "83"     "84"     "85"     "86"     "87"     "88"     "89"     "90"
##     [91] "91"     "92"     "93"     "94"     "95"     "96"     "97"     "98"     "99"
##    [100] "100"    "101"    "102"    "103"    "104"    "105"    "106"    "107"    "108"
##    [109] "109"    "110"    "111"    "112"    "113"    "114"    "115"    "116"    "117"
##    [118] "118"    "119"    "120"    "121"    "122"    "123"    "124"    "125"    "126"
##    [127] "127"    "128"    "129"    "130"    "131"    "132"    "133"    "134"    "135"
##    [136] "136"    "137"    "138"    "139"    "140"    "141"    "142"    "143"    "144"
##    [145] "145"    "146"    "147"    "148"    "149"    "150"    "151"    "152"    "153"
##    [154] "154"    "155"    "156"    "157"    "158"    "159"    "160"    "161"    "162"
##    [163] "163"    "164"    "165"    "166"    "167"    "168"    "169"    "170"    "171"
##    [172] "172"    "173"    "174"    "175"    "176"    "177"    "178"    "179"    "180"
##    [181] "181"    "182"    "183"    "184"    "185"    "186"    "187"    "188"    "189"
##    [190] "190"    "191"    "192"    "193"    "194"    "195"    "196"    "197"    "198"
##    [199] "199"    "200"    "201"    "202"    "203"    "204"    "205"    "206"    "207"
##    [208] "208"    "209"    "210"    "211"    "212"    "213"    "214"    "215"    "216"
##    [217] "217"    "218"    "219"    "220"    "221"    "222"    "223"    "224"    "225"
##    [226] "226"    "227"    "228"    "229"    "230"    "231"    "232"    "233"    "234"
##    [235] "235"    "236"    "237"    "238"    "239"    "240"    "241"    "242"    "243"
##    [244] "244"    "245"    "246"    "247"    "248"    "249"    "250"    "251"    "252"
##    [253] "253"    "254"    "255"    "256"    "257"    "258"    "259"    "260"    "261"
##    [262] "262"    "263"    "264"    "265"    "266"    "267"    "268"    "269"    "270"
##    [271] "271"    "272"    "273"    "274"    "275"    "276"    "277"    "278"    "279"
##    [280] "280"    "281"    "282"    "283"    "284"    "285"    "286"    "287"    "288"
##    [289] "289"    "290"    "291"    "292"    "293"    "294"    "295"    "296"    "297"
##    [298] "298"    "299"    "300"    "301"    "302"    "303"    "304"    "305"    "306"
##    [307] "307"    "308"    "309"    "310"    "311"    "312"    "313"    "314"    "315"
##    [316] "316"    "317"    "318"    "319"    "320"    "321"    "322"    "323"    "324"
##    [325] "325"    "326"    "327"    "328"    "329"    "330"    "331"    "332"    "333"
##    [334] "334"    "335"    "336"    "337"    "338"    "339"    "340"    "341"    "342"
##    [343] "343"    "344"    "345"    "346"    "347"    "348"    "349"    "350"    "351"
##    [352] "352"    "353"    "354"    "355"    "356"    "357"    "358"    "359"    "360"
##    [361] "361"    "362"    "363"    "364"    "365"    "366"    "367"    "368"    "369"
##    [370] "370"    "371"    "372"    "373"    "374"    "375"    "376"    "377"    "378"
##    [379] "379"    "380"    "381"    "382"    "383"    "384"    "385"    "386"    "387"
##    [388] "388"    "389"    "390"    "391"    "392"    "393"    "394"    "395"    "396"
##    [397] "397"    "398"    "399"    "400"    "401"    "402"    "403"    "404"    "405"
##    [406] "406"    "407"    "408"    "409"    "410"    "411"    "412"    "413"    "414"
##    [415] "415"    "416"    "417"    "418"    "419"    "420"    "421"    "422"    "423"
##    [424] "424"    "425"    "426"    "427"    "428"    "429"    "430"    "431"    "432"

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##	[433]	"433"	"434"	"435"	"436"	"437"	"438"	"439"	"440"	"441"
##	[442]	"442"	"443"	"444"	"445"	"446"	"447"	"448"	"449"	"450"
##	[451]	"451"	"452"	"453"	"454"	"455"	"456"	"457"	"458"	"459"
##	[460]	"460"	"461"	"462"	"463"	"464"	"465"	"466"	"467"	"468"
##	[469]	"469"	"470"	"471"	"472"	"473"	"474"	"475"	"476"	"477"
##	[478]	"478"	"479"	"480"	"481"	"482"	"483"	"484"	"485"	"486"
##	[487]	"487"	"488"	"489"	"490"	"491"	"492"	"493"	"494"	"495"
##	[496]	"496"	"497"	"498"	"499"	"500"	"501"	"502"	"503"	"504"
##	[505]	"505"	"506"	"507"	"508"	"509"	"510"	"511"	"512"	"513"
##	[514]	"514"	"515"	"516"	"517"	"518"	"519"	"520"	"521"	"522"
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##	[532]	"532"	"533"	"534"	"535"	"536"	"537"	"538"	"539"	"540"
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##	[577]	"577"	"578"	"579"	"580"	"581"	"582"	"583"	"584"	"585"
##	[586]	"586"	"587"	"588"	"589"	"590"	"591"	"592"	"593"	"594"
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##	[604]	"604"	"605"	"606"	"607"	"608"	"609"	"610"	"611"	"612"
##	[613]	"613"	"614"	"615"	"616"	"617"	"618"	"619"	"620"	"621"
##	[622]	"622"	"623"	"624"	"625"	"626"	"627"	"628"	"629"	"630"
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##	[676]	"676"	"677"	"678"	"679"	"680"	"681"	"682"	"683"	"684"
##	[685]	"685"	"686"	"687"	"688"	"689"	"690"	"691"	"692"	"693"
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##	[703]	"703"	"704"	"705"	"706"	"707"	"708"	"709"	"710"	"711"
##	[712]	"712"	"713"	"714"	"715"	"716"	"717"	"718"	"719"	"720"
##	[721]	"721"	"722"	"723"	"724"	"725"	"726"	"727"	"728"	"729"
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##	[739]	"739"	"740"	"741"	"742"	"743"	"744"	"745"	"746"	"747"
##	[748]	"748"	"749"	"750"	"751"	"752"	"753"	"754"	"755"	"756"
##	[757]	"757"	"758"	"759"	"760"	"761"	"762"	"763"	"764"	"765"
##	[766]	"766"	"767"	"768"	"769"	"770"	"771"	"772"	"773"	"774"
##	[775]	"775"	"776"	"777"	"778"	"779"	"780"	"781"	"782"	"783"
##	[784]	"784"	"785"	"786"	"787"	"788"	"789"	"790"	"791"	"792"
##	[793]	"793"	"794"	"795"	"796"	"797"	"798"	"799"	"800"	"801"
##	[802]	"802"	"803"	"804"	"805"	"806"	"807"	"808"	"809"	"810"
##	[811]	"811"	"812"	"813"	"814"	"815"	"816"	"817"	"818"	"819"
##	[820]	"820"	"821"	"822"	"823"	"824"	"825"	"826"	"827"	"828"
##	[829]	"829"	"830"	"831"	"832"	"833"	"834"	"835"	"836"	"837"
##	[838]	"838"	"839"	"840"	"841"	"842"	"843"	"844"	"845"	"846"
##	[847]	"847"	"848"	"849"	"850"	"851"	"852"	"853"	"854"	"855"
##	[856]	"856"	"857"	"858"	"859"	"860"	"861"	"862"	"863"	"864"
##	[865]	"865"	"866"	"867"	"868"	"869"	"870"	"871"	"872"	"873"
##	[874]	"874"	"875"	"876"	"877"	"878"	"879"	"880"	"881"	"882"
##	[883]	"883"	"884"	"885"	"886"	"887"	"888"	"889"	"890"	"891"
##	[892]	"892"	"893"	"894"	"895"	"896"	"897"	"898"	"899"	"900"
##	[901]	"901"	"902"	"903"	"904"	"905"	"906"	"907"	"908"	"909"
##	[910]	"910"	"911"	"912"	"913"	"914"	"915"	"916"	"917"	"918"

##	[919]	"919"	"920"	"921"	"922"	"923"	"924"	"925"	"926"	"927"
##	[928]	"928"	"929"	"930"	"931"	"932"	"933"	"934"	"935"	"936"
##	[937]	"937"	"938"	"939"	"940"	"941"	"942"	"943"	"944"	"945"
##	[946]	"946"	"947"	"948"	"949"	"950"	"951"	"952"	"953"	"954"
##	[955]	"955"	"956"	"957"	"958"	"959"	"960"	"961"	"962"	"963"
##	[964]	"964"	"965"	"966"	"967"	"968"	"969"	"970"	"971"	"972"
##	[973]	"973"	"974"	"975"	"976"	"977"	"978"	"979"	"980"	"981"
##	[982]	"982"	"983"	"984"	"985"	"986"	"987"	"988"	"989"	"990"
##	[991]	"991"	"992"	"993"	"994"	"995"	"996"	"997"	"998"	"999"
##	[1000]	"1000"	"1001"	"1002"	"1003"	"1004"	"1005"	"1006"	"1007"	"1008"
##	[1009]	"1009"	"1010"	"1011"	"1012"	"1013"	"1014"	"1015"	"1016"	"1017"
##	[1018]	"1018"	"1019"	"1020"	"1021"	"1022"	"1023"	"1024"	"1025"	"1026"
##	[1027]	"1027"	"1028"	"1029"	"1030"	"1031"	"1032"	"1033"	"1034"	"1035"
##	[1036]	"1036"	"1037"	"1038"	"1039"	"1040"	"1041"	"1042"	"1043"	"1044"
##	[1045]	"1045"	"1046"	"1047"	"1048"	"1049"	"1050"	"1051"	"1052"	"1053"
##	[1054]	"1054"	"1055"	"1056"	"1057"	"1058"	"1059"	"1060"	"1061"	"1062"
##	[1063]	"1063"	"1064"	"1065"	"1066"	"1067"	"1068"	"1069"	"1070"	"1071"
##	[1072]	"1072"	"1073"	"1074"	"1075"	"1076"	"1077"	"1078"	"1079"	"1080"
##	[1081]	"1081"	"1082"	"1083"	"1084"	"1085"	"1086"	"1087"	"1088"	"1089"
##	[1090]	"1090"	"1091"	"1092"	"1093"	"1094"	"1095"	"1096"	"1097"	"1098"
##	[1099]	"1099"	"1100"	"1101"	"1102"	"1103"	"1104"	"1105"	"1106"	"1107"
##	[1108]	"1108"	"1109"	"1110"	"1111"	"1112"	"1113"	"1114"	"1115"	"1116"
##	[1117]	"1117"	"1118"	"1119"	"1120"	"1121"	"1122"	"1123"	"1124"	"1125"
##	[1126]	"1126"	"1127"	"1128"	"1129"	"1130"	"1131"	"1132"	"1133"	"1134"
##	[1135]	"1135"	"1136"	"1137"	"1138"	"1139"	"1140"	"1141"	"1142"	"1143"
##	[1144]	"1144"	"1145"	"1146"	"1147"	"1148"	"1149"	"1150"	"1151"	"1152"
##	[1153]	"1153"	"1154"	"1155"	"1156"	"1157"	"1158"	"1159"	"1160"	"1161"
##	[1162]	"1162"	"1163"	"1164"	"1165"	"1166"	"1167"	"1168"	"1169"	"1170"
##	[1171]	"1171"	"1172"	"1173"	"1174"	"1175"	"1176"	"1177"	"1178"	"1179"
##	[1180]	"1180"	"1181"	"1182"	"1183"	"1184"	"1185"	"1186"	"1187"	"1188"
##	[1189]	"1189"	"1190"	"1191"	"1192"	"1193"	"1194"	"1195"	"1196"	"1197"
##	[1198]	"1198"	"1199"	"1200"	"1201"	"1202"	"1203"	"1204"	"1205"	"1206"
##	[1207]	"1207"	"1208"	"1209"	"1210"	"1211"	"1212"	"1213"	"1214"	"1215"
##	[1216]	"1216"	"1217"	"1218"	"1219"	"1220"	"1221"	"1222"	"1223"	"1224"
##	[1225]	"1225"	"1226"	"1227"	"1228"	"1229"	"1230"	"1231"	"1232"	"1233"
##	[1234]	"1234"	"1235"	"1236"	"1237"	"1238"	"1239"	"1240"	"1241"	"1242"
##	[1243]	"1243"	"1244"	"1245"	"1246"	"1247"	"1248"	"1249"	"1250"	"1251"
##	[1252]	"1252"	"1253"	"1254"	"1255"	"1256"	"1257"	"1258"	"1259"	"1260"
##	[1261]	"1261"	"1262"	"1263"	"1264"	"1265"	"1266"	"1267"	"1268"	"1269"
##	[1270]	"1270"	"1271"	"1272"	"1273"	"1274"	"1275"	"1276"	"1277"	"1278"
##	[1279]	"1279"	"1280"	"1281"	"1282"	"1283"	"1284"	"1285"	"1286"	"1287"
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##	[1297]	"1297"	"1298"	"1299"	"1300"	"1301"	"1302"	"1303"	"1304"	"1305"
##	[1306]	"1306"	"1307"	"1308"	"1309"	"1310"	"1311"	"1312"	"1313"	"1314"
##	[1315]	"1315"	"1316"	"1317"	"1318"	"1319"	"1320"	"1321"	"1322"	"1323"
##	[1324]	"1324"	"1325"	"1326"	"1327"	"1328"	"1329"	"1330"	"1331"	"1332"
##	[1333]	"1333"	"1334"	"1335"	"1336"	"1337"	"1338"	"1339"	"1340"	"1341"
##	[1342]	"1342"	"1343"	"1344"	"1345"	"1346"	"1347"	"1348"	"1349"	"1350"
##	[1351]	"1351"	"1352"	"1353"	"1354"	"1355"	"1356"	"1357"	"1358"	"1359"
##	[1360]	"1360"	"1361"	"1362"	"1363"	"1364"	"1365"	"1366"	"1367"	"1368"
##	[1369]	"1369"	"1370"	"1371"	"1372"	"1373"	"1374"	"1375"	"1376"	"1377"
##	[1378]	"1378"	"1379"	"1380"	"1381"	"1382"	"1383"	"1384"	"1385"	"1386"
##	[1387]	"1387"	"1388"	"1389"	"1390"	"1391"	"1392"	"1393"	"1394"	"1395"
##	[1396]	"1396"	"1397"	"1398"	"1399"	"1400"	"1401"	"1402"	"1403"	"1404"

##	[1405]	"1405"	"1406"	"1407"	"1408"	"1409"	"1410"	"1411"	"1412"	"1413"
##	[1414]	"1414"	"1415"	"1416"	"1417"	"1418"	"1419"	"1420"	"1421"	"1422"
##	[1423]	"1423"	"1424"	"1425"	"1426"	"1427"	"1428"	"1429"	"1430"	"1431"
##	[1432]	"1432"	"1433"	"1434"	"1435"	"1436"	"1437"	"1438"	"1439"	"1440"
##	[1441]	"1441"	"1442"	"1443"	"1444"	"1445"	"1446"	"1447"	"1448"	"1449"
##	[1450]	"1450"	"1451"	"1452"	"1453"	"1454"	"1455"	"1456"	"1457"	"1458"
##	[1459]	"1459"	"1460"	"1461"	"1462"	"1463"	"1464"	"1465"	"1466"	"1467"
##	[1468]	"1468"	"1469"	"1470"	"1471"	"1472"	"1473"	"1474"	"1475"	"1476"
##	[1477]	"1477"	"1478"	"1479"	"1480"	"1481"	"1482"	"1483"	"1484"	"1485"
##	[1486]	"1486"	"1487"	"1488"	"1489"	"1490"	"1491"	"1492"	"1493"	"1494"
##	[1495]	"1495"	"1496"	"1497"	"1498"	"1499"	"1500"	"1501"	"1502"	"1503"
##	[1504]	"1504"	"1505"	"1506"	"1507"	"1508"	"1509"	"1510"	"1511"	"1512"
##	[1513]	"1513"	"1514"	"1515"	"1516"	"1517"	"1518"	"1519"	"1520"	"1521"
##	[1522]	"1522"	"1523"	"1524"	"1525"	"1526"	"1527"	"1528"	"1529"	"1530"
##	[1531]	"1531"	"1532"	"1533"	"1534"	"1535"	"1536"	"1537"	"1538"	"1539"
##	[1540]	"1540"	"1541"	"1542"	"1543"	"1544"	"1545"	"1546"	"1547"	"1548"
##	[1549]	"1549"	"1550"	"1551"	"1552"	"1553"	"1554"	"1555"	"1556"	"1557"
##	[1558]	"1558"	"1559"	"1560"	"1561"	"1562"	"1563"	"1564"	"1565"	"1566"
##	[1567]	"1567"	"1568"	"1569"	"1570"	"1571"	"1572"	"1573"	"1574"	"1575"
##	[1576]	"1576"	"1577"	"1578"	"1579"	"1580"	"1581"	"1582"	"1583"	"1584"
##	[1585]	"1585"	"1586"	"1587"	"1588"	"1589"	"1590"	"1591"	"1592"	"1593"
##	[1594]	"1594"	"1595"	"1596"	"1597"	"1598"	"1599"	"1600"	"1601"	"1602"
##	[1603]	"1603"	"1604"	"1605"	"1606"	"1607"	"1608"	"1609"	"1610"	"1611"
##	[1612]	"1612"	"1613"	"1614"	"1615"	"1616"	"1617"	"1618"	"1619"	"1620"
##	[1621]	"1621"	"1622"	"1623"	"1624"	"1625"	"1626"	"1627"	"1628"	"1629"
##	[1630]	"1630"	"1631"	"1632"	"1633"	"1634"	"1635"	"1636"	"1637"	"1638"
##	[1639]	"1639"	"1640"	"1641"	"1642"	"1643"	"1644"	"1645"	"1646"	"1647"
##	[1648]	"1648"	"1649"	"1650"	"1651"	"1652"	"1653"	"1654"	"1655"	"1656"
##	[1657]	"1657"	"1658"	"1659"	"1660"	"1661"	"1662"	"1663"	"1664"	"1665"
##	[1666]	"1666"	"1667"	"1668"	"1669"	"1670"	"1671"	"1672"	"1673"	"1674"
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##	[1684]	"1684"	"1685"	"1686"	"1687"	"1688"	"1689"	"1690"	"1691"	"1692"
##	[1693]	"1693"	"1694"	"1695"	"1696"	"1697"	"1698"	"1699"	"1700"	"1701"
##	[1702]	"1702"	"1703"	"1704"	"1705"	"1706"	"1707"	"1708"	"1709"	"1710"
##	[1711]	"1711"	"1712"	"1713"	"1714"	"1715"	"1716"	"1717"	"1718"	"1719"
##	[1720]	"1720"	"1721"	"1722"	"1723"	"1724"	"1725"	"1726"	"1727"	"1728"
##	[1729]	"1729"	"1730"	"1731"	"1732"	"1733"	"1734"	"1735"	"1736"	"1737"
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##	[1765]	"1765"	"1766"	"1767"	"1768"	"1769"	"1770"	"1771"	"1772"	"1773"
##	[1774]	"1774"	"1775"	"1776"	"1777"	"1778"	"1779"	"1780"	"1781"	"1782"
##	[1783]	"1783"	"1784"	"1785"	"1786"	"1787"	"1788"	"1789"	"1790"	"1791"
##	[1792]	"1792"	"1793"	"1794"	"1795"	"1796"	"1797"	"1798"	"1799"	"1800"
##	[1801]	"1801"	"1802"	"1803"	"1804"	"1805"	"1806"	"1807"	"1808"	"1809"
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##	[1846]	"1846"	"1847"	"1848"	"1849"	"1850"	"1851"	"1852"	"1853"	"1854"
##	[1855]	"1855"	"1856"	"1857"	"1858"	"1859"	"1860"	"1861"	"1862"	"1863"
##	[1864]	"1864"	"1865"	"1866"	"1867"	"1868"	"1869"	"1870"	"1871"	"1872"
##	[1873]	"1873"	"1874"	"1875"	"1876"	"1877"	"1878"	"1879"	"1880"	"1881"
##	[1882]	"1882"	"1883"	"1884"	"1885"	"1886"	"1887"	"1888"	"1889"	"1890"

##	[1891]	"1891"	"1892"	"1893"	"1894"	"1895"	"1896"	"1897"	"1898"	"1899"
##	[1900]	"1900"	"1901"	"1902"	"1903"	"1904"	"1905"	"1906"	"1907"	"1908"
##	[1909]	"1909"	"1910"	"1911"	"1912"	"1913"	"1914"	"1915"	"1916"	"1917"
##	[1918]	"1918"	"1919"	"1920"	"1921"	"1922"	"1923"	"1924"	"1925"	"1926"
##	[1927]	"1927"	"1928"	"1929"	"1930"	"1931"	"1932"	"1933"	"1934"	"1935"
##	[1936]	"1936"	"1937"	"1938"	"1939"	"1940"	"1941"	"1942"	"1943"	"1944"
##	[1945]	"1945"	"1946"	"1947"	"1948"	"1949"	"1950"	"1951"	"1952"	"1953"
##	[1954]	"1954"	"1955"	"1956"	"1957"	"1958"	"1959"	"1960"	"1961"	"1962"
##	[1963]	"1963"	"1964"	"1965"	"1966"	"1967"	"1968"	"1969"	"1970"	"1971"
##	[1972]	"1972"	"1973"	"1974"	"1975"	"1976"	"1977"	"1978"	"1979"	"1980"
##	[1981]	"1981"	"1982"	"1983"	"1984"	"1985"	"1986"	"1987"	"1988"	"1989"
##	[1990]	"1990"	"1991"	"1992"	"1993"	"1994"	"1995"	"1996"	"1997"	"1998"
##	[1999]	"1999"	"2000"	"2001"	"2002"	"2003"	"2004"	"2005"	"2006"	"2007"
##	[2008]	"2008"	"2009"	"2010"	"2011"	"2012"	"2013"	"2014"	"2015"	"2016"
##	[2017]	"2017"	"2018"	"2019"	"2020"	"2021"	"2022"	"2023"	"2024"	"2025"
##	[2026]	"2026"	"2027"	"2028"	"2029"	"2030"	"2031"	"2032"	"2033"	"2034"
##	[2035]	"2035"	"2036"	"2037"	"2038"	"2039"	"2040"	"2041"	"2042"	"2043"
##	[2044]	"2044"	"2045"	"2046"	"2047"	"2048"	"2049"	"2050"	"2051"	"2052"
##	[2053]	"2053"	"2054"	"2055"	"2056"	"2057"	"2058"	"2059"	"2060"	"2061"
##	[2062]	"2062"	"2063"	"2064"	"2065"	"2066"	"2067"	"2068"	"2069"	"2070"
##	[2071]	"2071"	"2072"	"2073"	"2074"	"2075"	"2076"	"2077"	"2078"	"2079"
##	[2080]	"2080"	"2081"	"2082"	"2083"	"2084"	"2085"	"2086"	"2087"	"2088"
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##	[2098]	"2098"	"2099"	"2100"	"2101"	"2102"	"2103"	"2104"	"2105"	"2106"
##	[2107]	"2107"	"2108"	"2109"	"2110"	"2111"	"2112"	"2113"	"2114"	"2115"
##	[2116]	"2116"	"2117"	"2118"	"2119"	"2120"	"2121"	"2122"	"2123"	"2124"
##	[2125]	"2125"	"2126"	"2127"	"2128"	"2129"	"2130"	"2131"	"2132"	"2133"
##	[2134]	"2134"	"2135"	"2136"	"2137"	"2138"	"2139"	"2140"	"2141"	"2142"
##	[2143]	"2143"	"2144"	"2145"	"2146"	"2147"	"2148"	"2149"	"2150"	"2151"
##	[2152]	"2152"	"2153"	"2154"	"2155"	"2156"	"2157"	"2158"	"2159"	"2160"
##	[2161]	"2161"	"2162"	"2163"	"2164"	"2165"	"2166"	"2167"	"2168"	"2169"
##	[2170]	"2170"	"2171"	"2172"	"2173"	"2174"	"2175"	"2176"	"2177"	"2178"
##	[2179]	"2179"	"2180"	"2181"	"2182"	"2183"	"2184"	"2185"	"2186"	"2187"
##	[2188]	"2188"	"2189"	"2190"	"2191"	"2192"	"2193"	"2194"	"2195"	"2196"
##	[2197]	"2197"	"2198"	"2199"	"2200"	"2201"	"2202"	"2203"	"2204"	"2205"
##	[2206]	"2206"	"2207"	"2208"	"2209"	"2210"	"2211"	"2212"	"2213"	"2214"
##	[2215]	"2215"	"2216"	"2217"	"2218"	"2219"	"2220"	"2221"	"2222"	"2223"
##	[2224]	"2224"	"2225"	"2226"	"2227"	"2228"	"2229"	"2230"	"2231"	"2232"
##	[2233]	"2233"	"2234"	"2235"	"2236"	"2237"	"2238"	"2239"	"2240"	"2241"
##	[2242]	"2242"	"2243"	"2244"	"2245"	"2246"	"2247"	"2248"	"2249"	"2250"
##	[2251]	"2251"	"2252"	"2253"	"2254"	"2255"	"2256"	"2257"	"2258"	"2259"
##	[2260]	"2260"	"2261"	"2262"	"2263"	"2264"	"2265"	"2266"	"2267"	"2268"
##	[2269]	"2269"	"2270"	"2271"	"2272"	"2273"	"2274"	"2275"	"2276"	"2277"
##	[2278]	"2278"	"2279"	"2280"	"2281"	"2282"	"2283"	"2284"	"2285"	"2286"
##	[2287]	"2287"	"2288"	"2289"	"2290"	"2291"	"2292"	"2293"	"2294"	"2295"
##	[2296]	"2296"	"2297"	"2298"	"2299"	"2300"	"2301"	"2302"	"2303"	"2304"
##	[2305]	"2305"	"2306"	"2307"	"2308"	"2309"	"2310"	"2311"	"2312"	"2313"
##	[2314]	"2314"	"2315"	"2316"	"2317"	"2318"	"2319"	"2320"	"2321"	"2322"
##	[2323]	"2323"	"2324"	"2325"	"2326"	"2327"	"2328"	"2329"	"2330"	"2331"
##	[2332]	"2332"	"2333"	"2334"	"2335"	"2336"	"2337"	"2338"	"2339"	"2340"
##	[2341]	"2341"	"2342"	"2343"	"2344"	"2345"	"2346"	"2347"	"2348"	"2349"
##	[2350]	"2350"	"2351"	"2352"	"2353"	"2354"	"2355"	"2356"	"2357"	"2358"
##	[2359]	"2359"	"2360"	"2361"	"2362"	"2363"	"2364"	"2365"	"2366"	"2367"
##	[2368]	"2368"	"2369"	"2370"	"2371"	"2372"	"2373"	"2374"	"2375"	"2376"

##	[2377]	"2377"	"2378"	"2379"	"2380"	"2381"	"2382"	"2383"	"2384"	"2385"
##	[2386]	"2386"	"2387"	"2388"	"2389"	"2390"	"2391"	"2392"	"2393"	"2394"
##	[2395]	"2395"	"2396"	"2397"	"2398"	"2399"	"2400"	"2401"	"2402"	"2403"
##	[2404]	"2404"	"2405"	"2406"	"2407"	"2408"	"2409"	"2410"	"2411"	"2412"
##	[2413]	"2413"	"2414"	"2415"	"2416"	"2417"	"2418"	"2419"	"2420"	"2421"
##	[2422]	"2422"	"2423"	"2424"	"2425"	"2426"	"2427"	"2428"	"2429"	"2430"
##	[2431]	"2431"	"2432"	"2433"	"2434"	"2435"	"2436"	"2437"	"2438"	"2439"
##	[2440]	"2440"	"2441"	"2442"	"2443"	"2444"	"2445"	"2446"	"2447"	"2448"
##	[2449]	"2449"	"2450"	"2451"	"2452"	"2453"	"2454"	"2455"	"2456"	"2457"
##	[2458]	"2458"	"2459"	"2460"	"2461"	"2462"	"2463"	"2464"	"2465"	"2466"
##	[2467]	"2467"	"2468"	"2469"	"2470"	"2471"	"2472"	"2473"	"2474"	"2475"
##	[2476]	"2476"	"2477"	"2478"	"2479"	"2480"	"2481"	"2482"	"2483"	"2484"
##	[2485]	"2485"	"2486"	"2487"	"2488"	"2489"	"2490"	"2491"	"2492"	"2493"
##	[2494]	"2494"	"2495"	"2496"	"2497"	"2498"	"2499"	"2500"	"2501"	"2502"
##	[2503]	"2503"	"2504"	"2505"	"2506"	"2507"	"2508"	"2509"	"2510"	"2511"
##	[2512]	"2512"	"2513"	"2514"	"2515"	"2516"	"2517"	"2518"	"2519"	"2520"
##	[2521]	"2521"	"2522"	"2523"	"2524"	"2525"	"2526"	"2527"	"2528"	"2529"
##	[2530]	"2530"	"2531"	"2532"	"2533"	"2534"	"2535"	"2536"	"2537"	"2538"
##	[2539]	"2539"	"2540"	"2541"	"2542"	"2543"	"2544"	"2545"	"2546"	"2547"
##	[2548]	"2548"	"2549"	"2550"	"2551"	"2552"	"2553"	"2554"	"2555"	"2556"
##	[2557]	"2557"	"2558"	"2559"	"2560"	"2561"	"2562"	"2563"	"2564"	"2565"
##	[2566]	"2566"	"2567"	"2568"	"2569"	"2570"	"2571"	"2572"	"2573"	"2574"
##	[2575]	"2575"	"2576"	"2577"	"2578"	"2579"	"2580"	"2581"	"2582"	"2583"
##	[2584]	"2584"	"2585"	"2586"	"2587"	"2588"	"2589"	"2590"	"2591"	"2592"
##	[2593]	"2593"	"2594"	"2595"	"2596"	"2597"	"2598"	"2599"	"2600"	"2601"
##	[2602]	"2602"	"2603"	"2604"	"2605"	"2606"	"2607"	"2608"	"2609"	"2610"
##	[2611]	"2611"	"2612"	"2613"	"2614"	"2615"	"2616"	"2617"	"2618"	"2619"
##	[2620]	"2620"	"2621"	"2622"	"2623"	"2624"	"2625"	"2626"	"2627"	"2628"
##	[2629]	"2629"	"2630"	"2631"	"2632"	"2633"	"2634"	"2635"	"2636"	"2637"
##	[2638]	"2638"	"2639"	"2640"	"2641"	"2642"	"2643"	"2644"	"2645"	"2646"
##	[2647]	"2647"	"2648"	"2649"	"2650"	"2651"	"2652"	"2653"	"2654"	"2655"
##	[2656]	"2656"	"2657"	"2658"	"2659"	"2660"	"2661"	"2662"	"2663"	"2664"
##	[2665]	"2665"	"2666"	"2667"	"2668"	"2669"	"2670"	"2671"	"2672"	"2673"
##	[2674]	"2674"	"2675"	"2676"	"2677"	"2678"	"2679"	"2680"	"2681"	"2682"
##	[2683]	"2683"	"2684"	"2685"	"2686"	"2687"	"2688"	"2689"	"2690"	"2691"
##	[2692]	"2692"	"2693"	"2694"	"2695"	"2696"	"2697"	"2698"	"2699"	"2700"
##	[2701]	"2701"	"2702"	"2703"	"2704"	"2705"	"2706"	"2707"	"2708"	"2709"
##	[2710]	"2710"	"2711"	"2712"	"2713"	"2714"	"2715"	"2716"	"2717"	"2718"
##	[2719]	"2719"	"2720"	"2721"	"2722"	"2723"	"2724"	"2725"	"2726"	"2727"
##	[2728]	"2728"	"2729"	"2730"	"2731"	"2732"	"2733"	"2734"	"2735"	"2736"
##	[2737]	"2737"	"2738"	"2739"	"2740"	"2741"	"2742"	"2743"	"2744"	"2745"
##	[2746]	"2746"	"2747"	"2748"	"2749"	"2750"	"2751"	"2752"	"2753"	"2754"
##	[2755]	"2755"	"2756"	"2757"	"2758"	"2759"	"2760"	"2761"	"2762"	"2763"
##	[2764]	"2764"	"2765"	"2766"	"2767"	"2768"	"2769"	"2770"	"2771"	"2772"
##	[2773]	"2773"	"2774"	"2775"	"2776"	"2777"	"2778"	"2779"	"2780"	"2781"
##	[2782]	"2782"	"2783"	"2784"	"2785"	"2786"	"2787"	"2788"	"2789"	"2790"
##	[2791]	"2791"	"2792"	"2793"	"2794"	"2795"	"2796"	"2797"	"2798"	"2799"
##	[2800]	"2800"	"2801"	"2802"	"2803"	"2804"	"2805"	"2806"	"2807"	"2808"
##	[2809]	"2809"	"2810"	"2811"	"2812"	"2813"	"2814"	"2815"	"2816"	"2817"
##	[2818]	"2818"	"2819"	"2820"	"2821"	"2822"	"2823"	"2824"	"2825"	"2826"
##	[2827]	"2827"	"2828"	"2829"	"2830"	"2831"	"2832"	"2833"	"2834"	"2835"
##	[2836]	"2836"	"2837"	"2838"	"2839"	"2840"	"2841"	"2842"	"2843"	"2844"
##	[2845]	"2845"	"2846"	"2847"	"2848"	"2849"	"2850"	"2851"	"2852"	"2853"
##	[2854]	"2854"	"2855"	"2856"	"2857"	"2858"	"2859"	"2860"	"2861"	"2862"

##	[2863]	"2863"	"2864"	"2865"	"2866"	"2867"	"2868"	"2869"	"2870"	"2871"
##	[2872]	"2872"	"2873"	"2874"	"2875"	"2876"	"2877"	"2878"	"2879"	"2880"
##	[2881]	"2881"	"2882"	"2883"	"2884"	"2885"	"2886"	"2887"	"2888"	"2889"
##	[2890]	"2890"	"2891"	"2892"	"2893"	"2894"	"2895"	"2896"	"2897"	"2898"
##	[2899]	"2899"	"2900"	"2901"	"2902"	"2903"	"2904"	"2905"	"2906"	"2907"
##	[2908]	"2908"	"2909"	"2910"	"2911"	"2912"	"2913"	"2914"	"2915"	"2916"
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##	[2926]	"2926"	"2927"	"2928"	"2929"	"2930"	"2931"	"2932"	"2933"	"2934"
##	[2935]	"2935"	"2936"	"2937"	"2938"	"2939"	"2940"	"2941"	"2942"	"2943"
##	[2944]	"2944"	"2945"	"2946"	"2947"	"2948"	"2949"	"2950"	"2951"	"2952"
##	[2953]	"2953"	"2954"	"2955"	"2956"	"2957"	"2958"	"2959"	"2960"	"2961"
##	[2962]	"2962"	"2963"	"2964"	"2965"	"2966"	"2967"	"2968"	"2969"	"2970"
##	[2971]	"2971"	"2972"	"2973"	"2974"	"2975"	"2976"	"2977"	"2978"	"2979"
##	[2980]	"2980"	"2981"	"2982"	"2983"	"2984"	"2985"	"2986"	"2987"	"2988"
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##	[3079]	"3079"	"3080"	"3081"	"3082"	"3083"	"3084"	"3085"	"3086"	"3087"
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##	[3142]	"3142"	"3143"	"3144"	"3145"	"3146"	"3147"	"3148"	"3149"	"3150"
##	[3151]	"3151"	"3152"	"3153"	"3154"	"3155"	"3156"	"3157"	"3158"	"3159"
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##	[3241]	"3241"	"3242"	"3243"	"3244"	"3245"	"3246"	"3247"	"3248"	"3249"
##	[3250]	"3250"	"3251"	"3252"	"3253"	"3254"	"3255"	"3256"	"3257"	"3258"
##	[3259]	"3259"	"3260"	"3261"	"3262"	"3263"	"3264"	"3265"	"3266"	"3267"
##	[3268]	"3268"	"3269"	"3270"	"3271"	"3272"	"3273"	"3274"	"3275"	"3276"
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##	[3286]	"3286"	"3287"	"3288"	"3289"	"3290"	"3291"	"3292"	"3293"	"3294"
##	[3295]	"3295"	"3296"	"3297"	"3298"	"3299"	"3300"	"3301"	"3302"	"3303"
##	[3304]	"3304"	"3305"	"3306"	"3307"	"3308"	"3309"	"3310"	"3311"	"3312"
##	[3313]	"3313"	"3314"	"3315"	"3316"	"3317"	"3318"	"3319"	"3320"	"3321"
##	[3322]	"3322"	"3323"	"3324"	"3325"	"3326"	"3327"	"3328"	"3329"	"3330"
##	[3331]	"3331"	"3332"	"3333"	"3334"	"3335"	"3336"	"3337"	"3338"	"3339"
##	[3340]	"3340"	"3341"	"3342"	"3343"	"3344"	"3345"	"3346"	"3347"	"3348"

##	[3349]	"3349"	"3350"	"3351"	"3352"	"3353"	"3354"	"3355"	"3356"	"3357"
##	[3358]	"3358"	"3359"	"3360"	"3361"	"3362"	"3363"	"3364"	"3365"	"3366"
##	[3367]	"3367"	"3368"	"3369"	"3370"	"3371"	"3372"	"3373"	"3374"	"3375"
##	[3376]	"3376"	"3377"	"3378"	"3379"	"3380"	"3381"	"3382"	"3383"	"3384"
##	[3385]	"3385"	"3386"	"3387"	"3388"	"3389"	"3390"	"3391"	"3392"	"3393"
##	[3394]	"3394"	"3395"	"3396"	"3397"	"3398"	"3399"	"3400"	"3401"	"3402"
##	[3403]	"3403"	"3404"	"3405"	"3406"	"3407"	"3408"	"3409"	"3410"	"3411"
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##	[3430]	"3430"	"3431"	"3432"	"3433"	"3434"	"3435"	"3436"	"3437"	"3438"
##	[3439]	"3439"	"3440"	"3441"	"3442"	"3443"	"3444"	"3445"	"3446"	"3447"
##	[3448]	"3448"	"3449"	"3450"	"3451"	"3452"	"3453"	"3454"	"3455"	"3456"
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##	[3466]	"3466"	"3467"	"3468"	"3469"	"3470"	"3471"	"3472"	"3473"	"3474"
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##	[3502]	"3502"	"3503"	"3504"	"3505"	"3506"	"3507"	"3508"	"3509"	"3510"
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##	[3520]	"3520"	"3521"	"3522"	"3523"	"3524"	"3525"	"3526"	"3527"	"3528"
##	[3529]	"3529"	"3530"	"3531"	"3532"	"3533"	"3534"	"3535"	"3536"	"3537"
##	[3538]	"3538"	"3539"	"3540"	"3541"	"3542"	"3543"	"3544"	"3545"	"3546"
##	[3547]	"3547"	"3548"	"3549"	"3550"	"3551"	"3552"	"3553"	"3554"	"3555"
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##	[3565]	"3565"	"3566"	"3567"	"3568"	"3569"	"3570"	"3571"	"3572"	"3573"
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##	[3583]	"3583"	"3584"	"3585"	"3586"	"3587"	"3588"	"3589"	"3590"	"3591"
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##	[3601]	"3601"	"3602"	"3603"	"3604"	"3605"	"3606"	"3607"	"3608"	"3609"
##	[3610]	"3610"	"3611"	"3612"	"3613"	"3614"	"3615"	"3616"	"3617"	"3618"
##	[3619]	"3619"	"3620"	"3621"	"3622"	"3623"	"3624"	"3625"	"3626"	"3627"
##	[3628]	"3628"	"3629"	"3630"	"3631"	"3632"	"3633"	"3634"	"3635"	"3636"
##	[3637]	"3637"	"3638"	"3639"	"3640"	"3641"	"3642"	"3643"	"3644"	"3645"
##	[3646]	"3646"	"3647"	"3648"	"3649"	"3650"	"3651"	"3652"	"3653"	"3654"
##	[3655]	"3655"	"3656"	"3657"	"3658"	"3659"	"3660"	"3661"	"3662"	"3663"
##	[3664]	"3664"	"3665"	"3666"	"3667"	"3668"	"3669"	"3670"	"3671"	"3672"
##	[3673]	"3673"	"3674"	"3675"	"3676"	"3677"	"3678"	"3679"	"3680"	"3681"
##	[3682]	"3682"	"3683"	"3684"	"3685"	"3686"	"3687"	"3688"	"3689"	"3690"
##	[3691]	"3691"	"3692"	"3693"	"3694"	"3695"	"3696"	"3697"	"3698"	"3699"
##	[3700]	"3700"	"3701"	"3702"	"3703"	"3704"	"3705"	"3706"	"3707"	"3708"
##	[3709]	"3709"	"3710"	"3711"	"3712"	"3713"	"3714"	"3715"	"3716"	"3717"
##	[3718]	"3718"	"3719"	"3720"	"3721"	"3722"	"3723"	"3724"	"3725"	"3726"
##	[3727]	"3727"	"3728"	"3729"	"3730"	"3731"	"3732"	"3733"	"3734"	"3735"
##	[3736]	"3736"	"3737"	"3738"	"3739"	"3740"	"3741"	"3742"	"3743"	"3744"
##	[3745]	"3745"	"3746"	"3747"	"3748"	"3749"	"3750"	"3751"	"3752"	"3753"
##	[3754]	"3754"	"3755"	"3756"	"3757"	"3758"	"3759"	"3760"	"3761"	"3762"
##	[3763]	"3763"	"3764"	"3765"	"3766"	"3767"	"3768"	"3769"	"3770"	"3771"
##	[3772]	"3772"	"3773"	"3774"	"3775"	"3776"	"3777"	"3778"	"3779"	"3780"
##	[3781]	"3781"	"3782"	"3783"	"3784"	"3785"	"3786"	"3787"	"3788"	"3789"
##	[3790]	"3790"	"3791"	"3792"	"3793"	"3794"	"3795"	"3796"	"3797"	"3798"
##	[3799]	"3799"	"3800"	"3801"	"3802"	"3803"	"3804"	"3805"	"3806"	"3807"
##	[3808]	"3808"	"3809"	"3810"	"3811"	"3812"	"3813"	"3814"	"3815"	"3816"
##	[3817]	"3817"	"3818"	"3819"	"3820"	"3821"	"3822"	"3823"	"3824"	"3825"
##	[3826]	"3826"	"3827"	"3828"	"3829"	"3830"	"3831"	"3832"	"3833"	"3834"

##	[3835]	"3835"	"3836"	"3837"	"3838"	"3839"	"3840"	"3841"	"3842"	"3843"
##	[3844]	"3844"	"3845"	"3846"	"3847"	"3848"	"3849"	"3850"	"3851"	"3852"
##	[3853]	"3853"	"3854"	"3855"	"3856"	"3857"	"3858"	"3859"	"3860"	"3861"
##	[3862]	"3862"	"3863"	"3864"	"3865"	"3866"	"3867"	"3868"	"3869"	"3870"
##	[3871]	"3871"	"3872"	"3873"	"3874"	"3875"	"3876"	"3877"	"3878"	"3879"
##	[3880]	"3880"	"3881"	"3882"	"3883"	"3884"	"3885"	"3886"	"3887"	"3888"
##	[3889]	"3889"	"3890"	"3891"	"3892"	"3893"	"3894"	"3895"	"3896"	"3897"
##	[3898]	"3898"	"3899"	"3900"	"3901"	"3902"	"3903"	"3904"	"3905"	"3906"
##	[3907]	"3907"	"3908"	"3909"	"3910"	"3911"	"3912"	"3913"	"3914"	"3915"
##	[3916]	"3916"	"3917"	"3918"	"3919"	"3920"	"3921"	"3922"	"3923"	"3924"
##	[3925]	"3925"	"3926"	"3927"	"3928"	"3929"	"3930"	"3931"	"3932"	"3933"
##	[3934]	"3934"	"3935"	"3936"	"3937"	"3938"	"3939"	"3940"	"3941"	"3942"
##	[3943]	"3943"	"3944"	"3945"	"3946"	"3947"	"3948"	"3949"	"3950"	"3951"
##	[3952]	"3952"	"3953"	"3954"	"3955"	"3956"	"3957"	"3958"	"3959"	"3960"
##	[3961]	"3961"	"3962"	"3963"	"3964"	"3965"	"3966"	"3967"	"3968"	"3969"
##	[3970]	"3970"	"3971"	"3972"	"3973"	"3974"	"3975"	"3976"	"3977"	"3978"
##	[3979]	"3979"	"3980"	"3981"	"3982"	"3983"	"3984"	"3985"	"3986"	"3987"
##	[3988]	"3988"	"3989"	"3990"	"3991"	"3992"	"3993"	"3994"	"3995"	"3996"
##	[3997]	"3997"	"3998"	"3999"	"4000"	"4001"	"4002"	"4003"	"4004"	"4005"
##	[4006]	"4006"	"4007"	"4008"	"4009"	"4010"	"4011"	"4012"	"4013"	"4014"
##	[4015]	"4015"	"4016"	"4017"	"4018"	"4019"	"4020"	"4021"	"4022"	"4023"
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##	[4060]	"4060"	"4061"	"4062"	"4063"	"4064"	"4065"	"4066"	"4067"	"4068"
##	[4069]	"4069"	"4070"	"4071"	"4072"	"4073"	"4074"	"4075"	"4076"	"4077"
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##	[4096]	"4096"	"4097"	"4098"	"4099"	"4100"	"4101"	"4102"	"4103"	"4104"
##	[4105]	"4105"	"4106"	"4107"	"4108"	"4109"	"4110"	"4111"	"4112"	"4113"
##	[4114]	"4114"	"4115"	"4116"	"4117"	"4118"	"4119"	"4120"	"4121"	"4122"
##	[4123]	"4123"	"4124"	"4125"	"4126"	"4127"	"4128"	"4129"	"4130"	"4131"
##	[4132]	"4132"	"4133"	"4134"	"4135"	"4136"	"4137"	"4138"	"4139"	"4140"
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##	[4186]	"4186"	"4187"	"4188"	"4189"	"4190"	"4191"	"4192"	"4193"	"4194"
##	[4195]	"4195"	"4196"	"4197"	"4198"	"4199"	"4200"	"4201"	"4202"	"4203"
##	[4204]	"4204"	"4205"	"4206"	"4207"	"4208"	"4209"	"4210"	"4211"	"4212"
##	[4213]	"4213"	"4214"	"4215"	"4216"	"4217"	"4218"	"4219"	"4220"	"4221"
##	[4222]	"4222"	"4223"	"4224"	"4225"	"4226"	"4227"	"4228"	"4229"	"4230"
##	[4231]	"4231"	"4232"	"4233"	"4234"	"4235"	"4236"	"4237"	"4238"	"4239"
##	[4240]	"4240"	"4241"	"4242"	"4243"	"4244"	"4245"	"4246"	"4247"	"4248"
##	[4249]	"4249"	"4250"	"4251"	"4252"	"4253"	"4254"	"4255"	"4256"	"4257"
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##	[4267]	"4267"	"4268"	"4269"	"4270"	"4271"	"4272"	"4273"	"4274"	"4275"
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##	[4285]	"4285"	"4286"	"4287"	"4288"	"4289"	"4290"	"4291"	"4292"	"4293"
##	[4294]	"4294"	"4295"	"4296"	"4297"	"4298"	"4299"	"4300"	"4301"	"4302"
##	[4303]	"4303"	"4304"	"4305"	"4306"	"4307"	"4308"	"4309"	"4310"	"4311"
##	[4312]	"4312"	"4313"	"4314"	"4315"	"4316"	"4317"	"4318"	"4319"	"4320"

##	[4321]	"4321"	"4322"	"4323"	"4324"	"4325"	"4326"	"4327"	"4328"	"4329"
##	[4330]	"4330"	"4331"	"4332"	"4333"	"4334"	"4335"	"4336"	"4337"	"4338"
##	[4339]	"4339"	"4340"	"4341"	"4342"	"4343"	"4344"	"4345"	"4346"	"4347"
##	[4348]	"4348"	"4349"	"4350"	"4351"	"4352"	"4353"	"4354"	"4355"	"4356"
##	[4357]	"4357"	"4358"	"4359"	"4360"	"4361"	"4362"	"4363"	"4364"	"4365"
##	[4366]	"4366"	"4367"	"4368"	"4369"	"4370"	"4371"	"4372"	"4373"	"4374"
##	[4375]	"4375"	"4376"	"4377"	"4378"	"4379"	"4380"	"4381"	"4382"	"4383"
##	[4384]	"4384"	"4385"	"4386"	"4387"	"4388"	"4389"	"4390"	"4391"	"4392"
##	[4393]	"4393"	"4394"	"4395"	"4396"	"4397"	"4398"	"4399"	"4400"	"4401"
##	[4402]	"4402"	"4403"	"4404"	"4405"	"4406"	"4407"	"4408"	"4409"	"4410"
##	[4411]	"4411"	"4412"	"4413"	"4414"	"4415"	"4416"	"4417"	"4418"	"4419"
##	[4420]	"4420"	"4421"	"4422"	"4423"	"4424"	"4425"	"4426"	"4427"	"4428"
##	[4429]	"4429"	"4430"	"4431"	"4432"	"4433"	"4434"	"4435"	"4436"	"4437"
##	[4438]	"4438"	"4439"	"4440"	"4441"	"4442"	"4443"	"4444"	"4445"	"4446"
##	[4447]	"4447"	"4448"	"4449"	"4450"	"4451"	"4452"	"4453"	"4454"	"4455"
##	[4456]	"4456"	"4457"	"4458"	"4459"	"4460"	"4461"	"4462"	"4463"	"4464"
##	[4465]	"4465"	"4466"	"4467"	"4468"	"4469"	"4470"	"4471"	"4472"	"4473"
##	[4474]	"4474"	"4475"	"4476"	"4477"	"4478"	"4479"	"4480"	"4481"	"4482"
##	[4483]	"4483"	"4484"	"4485"	"4486"	"4487"	"4488"	"4489"	"4490"	"4491"
##	[4492]	"4492"	"4493"	"4494"	"4495"	"4496"	"4497"	"4498"	"4499"	"4500"
##	[4501]	"4501"	"4502"	"4503"	"4504"	"4505"	"4506"	"4507"	"4508"	"4509"
##	[4510]	"4510"	"4511"	"4512"	"4513"	"4514"	"4515"	"4516"	"4517"	"4518"
##	[4519]	"4519"	"4520"	"4521"	"4522"	"4523"	"4524"	"4525"	"4526"	"4527"
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##	[4537]	"4537"	"4538"	"4539"	"4540"	"4541"	"4542"	"4543"	"4544"	"4545"
##	[4546]	"4546"	"4547"	"4548"	"4549"	"4550"	"4551"	"4552"	"4553"	"4554"
##	[4555]	"4555"	"4556"	"4557"	"4558"	"4559"	"4560"	"4561"	"4562"	"4563"
##	[4564]	"4564"	"4565"	"4566"	"4567"	"4568"	"4569"	"4570"	"4571"	"4572"
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##	[4600]	"4600"	"4601"	"4602"	"4603"	"4604"	"4605"	"4606"	"4607"	"4608"
##	[4609]	"4609"	"4610"	"4611"	"4612"	"4613"	"4614"	"4615"	"4616"	"4617"
##	[4618]	"4618"	"4619"	"4620"	"4621"	"4622"	"4623"	"4624"	"4625"	"4626"
##	[4627]	"4627"	"4628"	"4629"	"4630"	"4631"	"4632"	"4633"	"4634"	"4635"
##	[4636]	"4636"	"4637"	"4638"	"4639"	"4640"	"4641"	"4642"	"4643"	"4644"
##	[4645]	"4645"	"4646"	"4647"	"4648"	"4649"	"4650"	"4651"	"4652"	"4653"
##	[4654]	"4654"	"4655"	"4656"	"4657"	"4658"	"4659"	"4660"	"4661"	"4662"
##	[4663]	"4663"	"4664"	"4665"	"4666"	"4667"	"4668"	"4669"	"4670"	"4671"
##	[4672]	"4672"	"4673"	"4674"	"4675"	"4676"	"4677"	"4678"	"4679"	"4680"
##	[4681]	"4681"	"4682"	"4683"	"4684"	"4685"	"4686"	"4687"	"4688"	"4689"
##	[4690]	"4690"	"4691"	"4692"	"4693"	"4694"	"4695"	"4696"	"4697"	"4698"
##	[4699]	"4699"	"4700"	"4701"	"4702"	"4703"	"4704"	"4705"	"4706"	"4707"
##	[4708]	"4708"	"4709"	"4710"	"4711"	"4712"	"4713"	"4714"	"4715"	"4716"
##	[4717]	"4717"	"4718"	"4719"	"4720"	"4721"	"4722"	"4723"	"4724"	"4725"
##	[4726]	"4726"	"4727"	"4728"	"4729"	"4730"	"4731"	"4732"	"4733"	"4734"
##	[4735]	"4735"	"4736"	"4737"	"4738"	"4739"	"4740"	"4741"	"4742"	"4743"
##	[4744]	"4744"	"4745"	"4746"	"4747"	"4748"	"4749"	"4750"	"4751"	"4752"
##	[4753]	"4753"	"4754"	"4755"	"4756"	"4757"	"4758"	"4759"	"4760"	"4761"
##	[4762]	"4762"	"4763"	"4764"	"4765"	"4766"	"4767"	"4768"	"4769"	"4770"
##	[4771]	"4771"	"4772"	"4773"	"4774"	"4775"	"4776"	"4777"	"4778"	"4779"
##	[4780]	"4780"	"4781"	"4782"	"4783"	"4784"	"4785"	"4786"	"4787"	"4788"
##	[4789]	"4789"	"4790"	"4791"	"4792"	"4793"	"4794"	"4795"	"4796"	"4797"
##	[4798]	"4798"	"4799"	"4800"	"4801"	"4802"	"4803"	"4804"	"4805"	"4806"

##	[4807]	"4807"	"4808"	"4809"	"4810"	"4811"	"4812"	"4813"	"4814"	"4815"
##	[4816]	"4816"	"4817"	"4818"	"4819"	"4820"	"4821"	"4822"	"4823"	"4824"
##	[4825]	"4825"	"4826"	"4827"	"4828"	"4829"	"4830"	"4831"	"4832"	"4833"
##	[4834]	"4834"	"4835"	"4836"	"4837"	"4838"	"4839"	"4840"	"4841"	"4842"
##	[4843]	"4843"	"4844"	"4845"	"4846"	"4847"	"4848"	"4849"	"4850"	"4851"
##	[4852]	"4852"	"4853"	"4854"	"4855"	"4856"	"4857"	"4858"	"4859"	"4860"
##	[4861]	"4861"	"4862"	"4863"	"4864"	"4865"	"4866"	"4867"	"4868"	"4869"
##	[4870]	"4870"	"4871"	"4872"	"4873"	"4874"	"4875"	"4876"	"4877"	"4878"
##	[4879]	"4879"	"4880"	"4881"	"4882"	"4883"	"4884"	"4885"	"4886"	"4887"
##	[4888]	"4888"	"4889"	"4890"	"4891"	"4892"	"4893"	"4894"	"4895"	"4896"
##	[4897]	"4897"	"4898"	"4899"	"4900"	"4901"	"4902"	"4903"	"4904"	"4905"
##	[4906]	"4906"	"4907"	"4908"	"4909"	"4910"	"4911"	"4912"	"4913"	"4914"
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##	[4933]	"4933"	"4934"	"4935"	"4936"	"4937"	"4938"	"4939"	"4940"	"4941"
##	[4942]	"4942"	"4943"	"4944"	"4945"	"4946"	"4947"	"4948"	"4949"	"4950"
##	[4951]	"4951"	"4952"	"4953"	"4954"	"4955"	"4956"	"4957"	"4958"	"4959"
##	[4960]	"4960"	"4961"	"4962"	"4963"	"4964"	"4965"	"4966"	"4967"	"4968"
##	[4969]	"4969"	"4970"	"4971"	"4972"	"4973"	"4974"	"4975"	"4976"	"4977"
##	[4978]	"4978"	"4979"	"4980"	"4981"	"4982"	"4983"	"4984"	"4985"	"4986"
##	[4987]	"4987"	"4988"	"4989"	"4990"	"4991"	"4992"	"4993"	"4994"	"4995"
##	[4996]	"4996"	"4997"	"4998"	"4999"	"5000"	"5001"	"5002"	"5003"	"5004"
##	[5005]	"5005"	"5006"	"5007"	"5008"	"5009"	"5010"	"5011"	"5012"	"5013"
##	[5014]	"5014"	"5015"	"5016"	"5017"	"5018"	"5019"	"5020"	"5021"	"5022"
##	[5023]	"5023"	"5024"	"5025"	"5026"	"5027"	"5028"	"5029"	"5030"	"5031"
##	[5032]	"5032"	"5033"	"5034"	"5035"	"5036"	"5037"	"5038"	"5039"	"5040"
##	[5041]	"5041"	"5042"	"5043"	"5044"	"5045"	"5046"	"5047"	"5048"	"5049"
##	[5050]	"5050"	"5051"	"5052"	"5053"	"5054"	"5055"	"5056"	"5057"	"5058"
##	[5059]	"5059"	"5060"	"5061"	"5062"	"5063"	"5064"	"5065"	"5066"	"5067"
##	[5068]	"5068"	"5069"	"5070"	"5071"	"5072"	"5073"	"5074"	"5075"	"5076"
##	[5077]	"5077"	"5078"	"5079"	"5080"	"5081"	"5082"	"5083"	"5084"	"5085"
##	[5086]	"5086"	"5087"	"5088"	"5089"	"5090"	"5091"	"5092"	"5093"	"5094"
##	[5095]	"5095"	"5096"	"5097"	"5098"	"5099"	"5100"	"5101"	"5102"	"5103"
##	[5104]	"5104"	"5105"	"5106"	"5107"	"5108"	"5109"	"5110"	"5111"	"5112"
##	[5113]	"5113"	"5114"	"5115"	"5116"	"5117"	"5118"	"5119"	"5120"	"5121"
##	[5122]	"5122"	"5123"	"5124"	"5125"	"5126"	"5127"	"5128"	"5129"	"5130"
##	[5131]	"5131"	"5132"	"5133"	"5134"	"5135"	"5136"	"5137"	"5138"	"5139"
##	[5140]	"5140"	"5141"	"5142"	"5143"	"5144"	"5145"	"5146"	"5147"	"5148"
##	[5149]	"5149"	"5150"	"5151"	"5152"	"5153"	"5154"	"5155"	"5156"	"5157"
##	[5158]	"5158"	"5159"	"5160"	"5161"	"5162"	"5163"	"5164"	"5165"	"5166"
##	[5167]	"5167"	"5168"	"5169"	"5170"	"5171"	"5172"	"5173"	"5174"	"5175"
##	[5176]	"5176"	"5177"	"5178"	"5179"	"5180"	"5181"	"5182"	"5183"	"5184"
##	[5185]	"5185"	"5186"	"5187"	"5188"	"5189"	"5190"	"5191"	"5192"	"5193"
##	[5194]	"5194"	"5195"	"5196"	"5197"	"5198"	"5199"	"5200"	"5201"	"5202"
##	[5203]	"5203"	"5204"	"5205"	"5206"	"5207"	"5208"	"5209"	"5210"	"5211"
##	[5212]	"5212"	"5213"	"5214"	"5215"	"5216"	"5217"	"5218"	"5219"	"5220"
##	[5221]	"5221"	"5222"	"5223"	"5224"	"5225"	"5226"	"5227"	"5228"	"5229"
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##	[5239]	"5239"	"5240"	"5241"	"5242"	"5243"	"5244"	"5245"	"5246"	"5247"
##	[5248]	"5248"	"5249"	"5250"	"5251"	"5252"	"5253"	"5254"	"5255"	"5256"
##	[5257]	"5257"	"5258"	"5259"	"5260"	"5261"	"5262"	"5263"	"5264"	"5265"
##	[5266]	"5266"	"5267"	"5268"	"5269"	"5270"	"5271"	"5272"	"5273"	"5274"
##	[5275]	"5275"	"5276"	"5277"	"5278"	"5279"	"5280"	"5281"	"5282"	"5283"
##	[5284]	"5284"	"5285"	"5286"	"5287"	"5288"	"5289"	"5290"	"5291"	"5292"

##	[5293]	"5293"	"5294"	"5295"	"5296"	"5297"	"5298"	"5299"	"5300"	"5301"
##	[5302]	"5302"	"5303"	"5304"	"5305"	"5306"	"5307"	"5308"	"5309"	"5310"
##	[5311]	"5311"	"5312"	"5313"	"5314"	"5315"	"5316"	"5317"	"5318"	"5319"
##	[5320]	"5320"	"5321"	"5322"	"5323"	"5324"	"5325"	"5326"	"5327"	"5328"
##	[5329]	"5329"	"5330"	"5331"	"5332"	"5333"	"5334"	"5335"	"5336"	"5337"
##	[5338]	"5338"	"5339"	"5340"	"5341"	"5342"	"5343"	"5344"	"5345"	"5346"
##	[5347]	"5347"	"5348"	"5349"	"5350"	"5351"	"5352"	"5353"	"5354"	"5355"
##	[5356]	"5356"	"5357"	"5358"	"5359"	"5360"	"5361"	"5362"	"5363"	"5364"
##	[5365]	"5365"	"5366"	"5367"	"5368"	"5369"	"5370"	"5371"	"5372"	"5373"
##	[5374]	"5374"	"5375"	"5376"	"5377"	"5378"	"5379"	"5380"	"5381"	"5382"
##	[5383]	"5383"	"5384"	"5385"	"5386"	"5387"	"5388"	"5389"	"5390"	"5391"
##	[5392]	"5392"	"5393"	"5394"	"5395"	"5396"	"5397"	"5398"	"5399"	"5400"
##	[5401]	"5401"	"5402"	"5403"	"5404"	"5405"	"5406"	"5407"	"5408"	"5409"
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##	[5446]	"5446"	"5447"	"5448"	"5449"	"5450"	"5451"	"5452"	"5453"	"5454"
##	[5455]	"5455"	"5456"	"5457"	"5458"	"5459"	"5460"	"5461"	"5462"	"5463"
##	[5464]	"5464"	"5465"	"5466"	"5467"	"5468"	"5469"	"5470"	"5471"	"5472"
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##	[5482]	"5482"	"5483"	"5484"	"5485"	"5486"	"5487"	"5488"	"5489"	"5490"
##	[5491]	"5491"	"5492"	"5493"	"5494"	"5495"	"5496"	"5497"	"5498"	"5499"
##	[5500]	"5500"	"5501"	"5502"	"5503"	"5504"	"5505"	"5506"	"5507"	"5508"
##	[5509]	"5509"	"5510"	"5511"	"5512"	"5513"	"5514"	"5515"	"5516"	"5517"
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##	[5527]	"5527"	"5528"	"5529"	"5530"	"5531"	"5532"	"5533"	"5534"	"5535"
##	[5536]	"5536"	"5537"	"5538"	"5539"	"5540"	"5541"	"5542"	"5543"	"5544"
##	[5545]	"5545"	"5546"	"5547"	"5548"	"5549"	"5550"	"5551"	"5552"	"5553"
##	[5554]	"5554"	"5555"	"5556"	"5557"	"5558"	"5559"	"5560"	"5561"	"5562"
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##	[5572]	"5572"	"5573"	"5574"	"5575"	"5576"	"5577"	"5578"	"5579"	"5580"
##	[5581]	"5581"	"5582"	"5583"	"5584"	"5585"	"5586"	"5587"	"5588"	"5589"
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##	[5644]	"5644"	"5645"	"5646"	"5647"	"5648"	"5649"	"5650"	"5651"	"5652"
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##	[5662]	"5662"	"5663"	"5664"	"5665"	"5666"	"5667"	"5668"	"5669"	"5670"
##	[5671]	"5671"	"5672"	"5673"	"5674"	"5675"	"5676"	"5677"	"5678"	"5679"
##	[5680]	"5680"	"5681"	"5682"	"5683"	"5684"	"5685"	"5686"	"5687"	"5688"
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##	[5752]	"5752"	"5753"	"5754"	"5755"	"5756"	"5757"	"5758"	"5759"	"5760"
##	[5761]	"5761"	"5762"	"5763"	"5764"	"5765"	"5766"	"5767"	"5768"	"5769"
##	[5770]	"5770"	"5771"	"5772"	"5773"	"5774"	"5775"	"5776"	"5777"	"5778"

##	[5779]	"5779"	"5780"	"5781"	"5782"	"5783"	"5784"	"5785"	"5786"	"5787"
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##	[5797]	"5797"	"5798"	"5799"	"5800"	"5801"	"5802"	"5803"	"5804"	"5805"
##	[5806]	"5806"	"5807"	"5808"	"5809"	"5810"	"5811"	"5812"	"5813"	"5814"
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##	[5851]	"5851"	"5852"	"5853"	"5854"	"5855"	"5856"	"5857"	"5858"	"5859"
##	[5860]	"5860"	"5861"	"5862"	"5863"	"5864"	"5865"	"5866"	"5867"	"5868"
##	[5869]	"5869"	"5870"	"5871"	"5872"	"5873"	"5874"	"5875"	"5876"	"5877"
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##	[5887]	"5887"	"5888"	"5889"	"5890"	"5891"	"5892"	"5893"	"5894"	"5895"
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##	[5905]	"5905"	"5906"	"5907"	"5908"	"5909"	"5910"	"5911"	"5912"	"5913"
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##	[5968]	"5968"	"5969"	"5970"	"5971"	"5972"	"5973"	"5974"	"5975"	"5976"
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##	[6049]	"6049"	"6050"	"6051"	"6052"	"6053"	"6054"	"6055"	"6056"	"6057"
##	[6058]	"6058"	"6059"	"6060"	"6061"	"6062"	"6063"	"6064"	"6065"	"6066"
##	[6067]	"6067"	"6068"	"6069"	"6070"	"6071"	"6072"	"6073"	"6074"	"6075"
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##	[6256]	"6256"	"6257"	"6258"	"6259"	"6260"	"6261"	"6262"	"6263"	"6264"

##	[6265]	"6265"	"6266"	"6267"	"6268"	"6269"	"6270"	"6271"	"6272"	"6273"
##	[6274]	"6274"	"6275"	"6276"	"6277"	"6278"	"6279"	"6280"	"6281"	"6282"
##	[6283]	"6283"	"6284"	"6285"	"6286"	"6287"	"6288"	"6289"	"6290"	"6291"
##	[6292]	"6292"	"6293"	"6294"	"6295"	"6296"	"6297"	"6298"	"6299"	"6300"
##	[6301]	"6301"	"6302"	"6303"	"6304"	"6305"	"6306"	"6307"	"6308"	"6309"
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##	[6337]	"6337"	"6338"	"6339"	"6340"	"6341"	"6342"	"6343"	"6344"	"6345"
##	[6346]	"6346"	"6347"	"6348"	"6349"	"6350"	"6351"	"6352"	"6353"	"6354"
##	[6355]	"6355"	"6356"	"6357"	"6358"	"6359"	"6360"	"6361"	"6362"	"6363"
##	[6364]	"6364"	"6365"	"6366"	"6367"	"6368"	"6369"	"6370"	"6371"	"6372"
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##	[6454]	"6454"	"6455"	"6456"	"6457"	"6458"	"6459"	"6460"	"6461"	"6462"
##	[6463]	"6463"	"6464"	"6465"	"6466"	"6467"	"6468"	"6469"	"6470"	"6471"
##	[6472]	"6472"	"6473"	"6474"	"6475"	"6476"	"6477"	"6478"	"6479"	"6480"
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##	[6634]	"6634"	"6635"	"6636"	"6637"	"6638"	"6639"	"6640"	"6641"	"6642"
##	[6643]	"6643"	"6644"	"6645"	"6646"	"6647"	"6648"	"6649"	"6650"	"6651"
##	[6652]	"6652"	"6653"	"6654"	"6655"	"6656"	"6657"	"6658"	"6659"	"6660"
##	[6661]	"6661"	"6662"	"6663"	"6664"	"6665"	"6666"	"6667"	"6668"	"6669"
##	[6670]	"6670"	"6671"	"6672"	"6673"	"6674"	"6675"	"6676"	"6677"	"6678"
##	[6679]	"6679"	"6680"	"6681"	"6682"	"6683"	"6684"	"6685"	"6686"	"6687"
##	[6688]	"6688"	"6689"	"6690"	"6691"	"6692"	"6693"	"6694"	"6695"	"6696"
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##	[6706]	"6706"	"6707"	"6708"	"6709"	"6710"	"6711"	"6712"	"6713"	"6714"
##	[6715]	"6715"	"6716"	"6717"	"6718"	"6719"	"6720"	"6721"	"6722"	"6723"
##	[6724]	"6724"	"6725"	"6726"	"6727"	"6728"	"6729"	"6730"	"6731"	"6732"
##	[6733]	"6733"	"6734"	"6735"	"6736"	"6737"	"6738"	"6739"	"6740"	"6741"
##	[6742]	"6742"	"6743"	"6744"	"6745"	"6746"	"6747"	"6748"	"6749"	"6750"

##	[6751]	"6751"	"6752"	"6753"	"6754"	"6755"	"6756"	"6757"	"6758"	"6759"
##	[6760]	"6760"	"6761"	"6762"	"6763"	"6764"	"6765"	"6766"	"6767"	"6768"
##	[6769]	"6769"	"6770"	"6771"	"6772"	"6773"	"6774"	"6775"	"6776"	"6777"
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##	[6805]	"6805"	"6806"	"6807"	"6808"	"6809"	"6810"	"6811"	"6812"	"6813"
##	[6814]	"6814"	"6815"	"6816"	"6817"	"6818"	"6819"	"6820"	"6821"	"6822"
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##	[6841]	"6841"	"6842"	"6843"	"6844"	"6845"	"6846"	"6847"	"6848"	"6849"
##	[6850]	"6850"	"6851"	"6852"	"6853"	"6854"	"6855"	"6856"	"6857"	"6858"
##	[6859]	"6859"	"6860"	"6861"	"6862"	"6863"	"6864"	"6865"	"6866"	"6867"
##	[6868]	"6868"	"6869"	"6870"	"6871"	"6872"	"6873"	"6874"	"6875"	"6876"
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##	[6886]	"6886"	"6887"	"6888"	"6889"	"6890"	"6891"	"6892"	"6893"	"6894"
##	[6895]	"6895"	"6896"	"6897"	"6898"	"6899"	"6900"	"6901"	"6902"	"6903"
##	[6904]	"6904"	"6905"	"6906"	"6907"	"6908"	"6909"	"6910"	"6911"	"6912"
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##	[6949]	"6949"	"6950"	"6951"	"6952"	"6953"	"6954"	"6955"	"6956"	"6957"
##	[6958]	"6958"	"6959"	"6960"	"6961"	"6962"	"6963"	"6964"	"6965"	"6966"
##	[6967]	"6967"	"6968"	"6969"	"6970"	"6971"	"6972"	"6973"	"6974"	"6975"
##	[6976]	"6976"	"6977"	"6978"	"6979"	"6980"	"6981"	"6982"	"6983"	"6984"
##	[6985]	"6985"	"6986"	"6987"	"6988"	"6989"	"6990"	"6991"	"6992"	"6993"
##	[6994]	"6994"	"6995"	"6996"	"6997"	"6998"	"6999"	"7000"	"7001"	"7002"
##	[7003]	"7003"	"7004"	"7005"	"7006"	"7007"	"7008"	"7009"	"7010"	"7011"
##	[7012]	"7012"	"7013"	"7014"	"7015"	"7016"	"7017"	"7018"	"7019"	"7020"
##	[7021]	"7021"	"7022"	"7023"	"7024"	"7025"	"7026"	"7027"	"7028"	"7029"
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##	[7057]	"7057"	"7058"	"7059"	"7060"	"7061"	"7062"	"7063"	"7064"	"7065"
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##	[7120]	"7120"	"7121"	"7122"	"7123"	"7124"	"7125"	"7126"	"7127"	"7128"
##	[7129]	"7129"	"7130"	"7131"	"7132"	"7133"	"7134"	"7135"	"7136"	"7137"
##	[7138]	"7138"	"7139"	"7140"	"7141"	"7142"	"7143"	"7144"	"7145"	"7146"
##	[7147]	"7147"	"7148"	"7149"	"7150"	"7151"	"7152"	"7153"	"7154"	"7155"
##	[7156]	"7156"	"7157"	"7158"	"7159"	"7160"	"7161"	"7162"	"7163"	"7164"
##	[7165]	"7165"	"7166"	"7167"	"7168"	"7169"	"7170"	"7171"	"7172"	"7173"
##	[7174]	"7174"	"7175"	"7176"	"7177"	"7178"	"7179"	"7180"	"7181"	"7182"
##	[7183]	"7183"	"7184"	"7185"	"7186"	"7187"	"7188"	"7189"	"7190"	"7191"
##	[7192]	"7192"	"7193"	"7194"	"7195"	"7196"	"7197"	"7198"	"7199"	"7200"
##	[7201]	"7201"	"7202"	"7203"	"7204"	"7205"	"7206"	"7207"	"7208"	"7209"
##	[7210]	"7210"	"7211"	"7212"	"7213"	"7214"	"7215"	"7216"	"7217"	"7218"
##	[7219]	"7219"	"7220"	"7221"	"7222"	"7223"	"7224"	"7225"	"7226"	"7227"
##	[7228]	"7228"	"7229"	"7230"	"7231"	"7232"	"7233"	"7234"	"7235"	"7236"

##	[7237]	"7237"	"7238"	"7239"	"7240"	"7241"	"7242"	"7243"	"7244"	"7245"
##	[7246]	"7246"	"7247"	"7248"	"7249"	"7250"	"7251"	"7252"	"7253"	"7254"
##	[7255]	"7255"	"7256"	"7257"	"7258"	"7259"	"7260"	"7261"	"7262"	"7263"
##	[7264]	"7264"	"7265"	"7266"	"7267"	"7268"	"7269"	"7270"	"7271"	"7272"
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##	[7282]	"7282"	"7283"	"7284"	"7285"	"7286"	"7287"	"7288"	"7289"	"7290"
##	[7291]	"7291"	"7292"	"7293"	"7294"	"7295"	"7296"	"7297"	"7298"	"7299"
##	[7300]	"7300"	"7301"	"7302"	"7303"	"7304"	"7305"	"7306"	"7307"	"7308"
##	[7309]	"7309"	"7310"	"7311"	"7312"	"7313"	"7314"	"7315"	"7316"	"7317"
##	[7318]	"7318"	"7319"	"7320"	"7321"	"7322"	"7323"	"7324"	"7325"	"7326"
##	[7327]	"7327"	"7328"	"7329"	"7330"	"7331"	"7332"	"7333"	"7334"	"7335"
##	[7336]	"7336"	"7337"	"7338"	"7339"	"7340"	"7341"	"7342"	"7343"	"7344"
##	[7345]	"7345"	"7346"	"7347"	"7348"	"7349"	"7350"	"7351"	"7352"	"7353"
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##	[7363]	"7363"	"7364"	"7365"	"7366"	"7367"	"7368"	"7369"	"7370"	"7371"
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##	[7390]	"7390"	"7391"	"7392"	"7393"	"7394"	"7395"	"7396"	"7397"	"7398"
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##	[7426]	"7426"	"7427"	"7428"	"7429"	"7430"	"7431"	"7432"	"7433"	"7434"
##	[7435]	"7435"	"7436"	"7437"	"7438"	"7439"	"7440"	"7441"	"7442"	"7443"
##	[7444]	"7444"	"7445"	"7446"	"7447"	"7448"	"7449"	"7450"	"7451"	"7452"
##	[7453]	"7453"	"7454"	"7455"	"7456"	"7457"	"7458"	"7459"	"7460"	"7461"
##	[7462]	"7462"	"7463"	"7464"	"7465"	"7466"	"7467"	"7468"	"7469"	"7470"
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##	[7498]	"7498"	"7499"	"7500"	"7501"	"7502"	"7503"	"7504"	"7505"	"7506"
##	[7507]	"7507"	"7508"	"7509"	"7510"	"7511"	"7512"	"7513"	"7514"	"7515"
##	[7516]	"7516"	"7517"	"7518"	"7519"	"7520"	"7521"	"7522"	"7523"	"7524"
##	[7525]	"7525"	"7526"	"7527"	"7528"	"7529"	"7530"	"7531"	"7532"	"7533"
##	[7534]	"7534"	"7535"	"7536"	"7537"	"7538"	"7539"	"7540"	"7541"	"7542"
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##	[7552]	"7552"	"7553"	"7554"	"7555"	"7556"	"7557"	"7558"	"7559"	"7560"
##	[7561]	"7561"	"7562"	"7563"	"7564"	"7565"	"7566"	"7567"	"7568"	"7569"
##	[7570]	"7570"	"7571"	"7572"	"7573"	"7574"	"7575"	"7576"	"7577"	"7578"
##	[7579]	"7579"	"7580"	"7581"	"7582"	"7583"	"7584"	"7585"	"7586"	"7587"
##	[7588]	"7588"	"7589"	"7590"	"7591"	"7592"	"7593"	"7594"	"7595"	"7596"
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##	[7606]	"7606"	"7607"	"7608"	"7609"	"7610"	"7611"	"7612"	"7613"	"7614"
##	[7615]	"7615"	"7616"	"7617"	"7618"	"7619"	"7620"	"7621"	"7622"	"7623"
##	[7624]	"7624"	"7625"	"7626"	"7627"	"7628"	"7629"	"7630"	"7631"	"7632"
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##	[7642]	"7642"	"7643"	"7644"	"7645"	"7646"	"7647"	"7648"	"7649"	"7650"
##	[7651]	"7651"	"7652"	"7653"	"7654"	"7655"	"7656"	"7657"	"7658"	"7659"
##	[7660]	"7660"	"7661"	"7662"	"7663"	"7664"	"7665"	"7666"	"7667"	"7668"
##	[7669]	"7669"	"7670"	"7671"	"7672"	"7673"	"7674"	"7675"	"7676"	"7677"
##	[7678]	"7678"	"7679"	"7680"	"7681"	"7682"	"7683"	"7684"	"7685"	"7686"
##	[7687]	"7687"	"7688"	"7689"	"7690"	"7691"	"7692"	"7693"	"7694"	"7695"
##	[7696]	"7696"	"7697"	"7698"	"7699"	"7700"	"7701"	"7702"	"7703"	"7704"
##	[7705]	"7705"	"7706"	"7707"	"7708"	"7709"	"7710"	"7711"	"7712"	"7713"
##	[7714]	"7714"	"7715"	"7716"	"7717"	"7718"	"7719"	"7720"	"7721"	"7722"

##	[7723]	"7723"	"7724"	"7725"	"7726"	"7727"	"7728"	"7729"	"7730"	"7731"
##	[7732]	"7732"	"7733"	"7734"	"7735"	"7736"	"7737"	"7738"	"7739"	"7740"
##	[7741]	"7741"	"7742"	"7743"	"7744"	"7745"	"7746"	"7747"	"7748"	"7749"
##	[7750]	"7750"	"7751"	"7752"	"7753"	"7754"	"7755"	"7756"	"7757"	"7758"
##	[7759]	"7759"	"7760"	"7761"	"7762"	"7763"	"7764"	"7765"	"7766"	"7767"
##	[7768]	"7768"	"7769"	"7770"	"7771"	"7772"	"7773"	"7774"	"7775"	"7776"
##	[7777]	"7777"	"7778"	"7779"	"7780"	"7781"	"7782"	"7783"	"7784"	"7785"
##	[7786]	"7786"	"7787"	"7788"	"7789"	"7790"	"7791"	"7792"	"7793"	"7794"
##	[7795]	"7795"	"7796"	"7797"	"7798"	"7799"	"7800"	"7801"	"7802"	"7803"
##	[7804]	"7804"	"7805"	"7806"	"7807"	"7808"	"7809"	"7810"	"7811"	"7812"
##	[7813]	"7813"	"7814"	"7815"	"7816"	"7817"	"7818"	"7819"	"7820"	"7821"
##	[7822]	"7822"	"7823"	"7824"	"7825"	"7826"	"7827"	"7828"	"7829"	"7830"
##	[7831]	"7831"	"7832"	"7833"	"7834"	"7835"	"7836"	"7837"	"7838"	"7839"
##	[7840]	"7840"	"7841"	"7842"	"7843"	"7844"	"7845"	"7846"	"7847"	"7848"
##	[7849]	"7849"	"7850"	"7851"	"7852"	"7853"	"7854"	"7855"	"7856"	"7857"
##	[7858]	"7858"	"7859"	"7860"	"7861"	"7862"	"7863"	"7864"	"7865"	"7866"
##	[7867]	"7867"	"7868"	"7869"	"7870"	"7871"	"7872"	"7873"	"7874"	"7875"
##	[7876]	"7876"	"7877"	"7878"	"7879"	"7880"	"7881"	"7882"	"7883"	"7884"
##	[7885]	"7885"	"7886"	"7887"	"7888"	"7889"	"7890"	"7891"	"7892"	"7893"
##	[7894]	"7894"	"7895"	"7896"	"7897"	"7898"	"7899"	"7900"	"7901"	"7902"
##	[7903]	"7903"	"7904"	"7905"	"7906"	"7907"	"7908"	"7909"	"7910"	"7911"
##	[7912]	"7912"	"7913"	"7914"	"7915"	"7916"	"7917"	"7918"	"7919"	"7920"
##	[7921]	"7921"	"7922"	"7923"	"7924"	"7925"	"7926"	"7927"	"7928"	"7929"
##	[7930]	"7930"	"7931"	"7932"	"7933"	"7934"	"7935"	"7936"	"7937"	"7938"
##	[7939]	"7939"	"7940"	"7941"	"7942"	"7943"	"7944"	"7945"	"7946"	"7947"
##	[7948]	"7948"	"7949"	"7950"	"7951"	"7952"	"7953"	"7954"	"7955"	"7956"
##	[7957]	"7957"	"7958"	"7959"	"7960"	"7961"	"7962"	"7963"	"7964"	"7965"
##	[7966]	"7966"	"7967"	"7968"	"7969"	"7970"	"7971"	"7972"	"7973"	"7974"
##	[7975]	"7975"	"7976"	"7977"	"7978"	"7979"	"7980"	"7981"	"7982"	"7983"
##	[7984]	"7984"	"7985"	"7986"	"7987"	"7988"	"7989"	"7990"	"7991"	"7992"
##	[7993]	"7993"	"7994"	"7995"	"7996"	"7997"	"7998"	"7999"	"8000"	"8001"
##	[8002]	"8002"	"8003"	"8004"	"8005"	"8006"	"8007"	"8008"	"8009"	"8010"
##	[8011]	"8011"	"8012"	"8013"	"8014"	"8015"	"8016"	"8017"	"8018"	"8019"
##	[8020]	"8020"	"8021"	"8022"	"8023"	"8024"	"8025"	"8026"	"8027"	"8028"
##	[8029]	"8029"	"8030"	"8031"	"8032"	"8033"	"8034"	"8035"	"8036"	"8037"
##	[8038]	"8038"	"8039"	"8040"	"8041"	"8042"	"8043"	"8044"	"8045"	"8046"
##	[8047]	"8047"	"8048"	"8049"	"8050"	"8051"	"8052"	"8053"	"8054"	"8055"
##	[8056]	"8056"	"8057"	"8058"	"8059"	"8060"	"8061"	"8062"	"8063"	"8064"
##	[8065]	"8065"	"8066"	"8067"	"8068"	"8069"	"8070"	"8071"	"8072"	"8073"
##	[8074]	"8074"	"8075"	"8076"	"8077"	"8078"	"8079"	"8080"	"8081"	"8082"
##	[8083]	"8083"	"8084"	"8085"	"8086"	"8087"	"8088"	"8089"	"8090"	"8091"
##	[8092]	"8092"	"8093"	"8094"	"8095"	"8096"	"8097"	"8098"	"8099"	"8100"
##	[8101]	"8101"	"8102"	"8103"	"8104"	"8105"	"8106"	"8107"	"8108"	"8109"
##	[8110]	"8110"	"8111"	"8112"	"8113"	"8114"	"8115"	"8116"	"8117"	"8118"
##	[8119]	"8119"	"8120"	"8121"	"8122"	"8123"	"8124"	"8125"	"8126"	"8127"
##	[8128]	"8128"	"8129"	"8130"	"8131"	"8132"	"8133"	"8134"	"8135"	"8136"
##	[8137]	"8137"	"8138"	"8139"	"8140"	"8141"	"8142"	"8143"	"8144"	"8145"
##	[8146]	"8146"	"8147"	"8148"	"8149"	"8150"	"8151"	"8152"	"8153"	"8154"
##	[8155]	"8155"	"8156"	"8157"	"8158"	"8159"	"8160"	"8161"	"8162"	"8163"
##	[8164]	"8164"	"8165"	"8166"	"8167"	"8168"	"8169"	"8170"	"8171"	"8172"
##	[8173]	"8173"	"8174"	"8175"	"8176"	"8177"	"8178"	"8179"	"8180"	"8181"
##	[8182]	"8182"	"8183"	"8184"	"8185"	"8186"	"8187"	"8188"	"8189"	"8190"
##	[8191]	"8191"	"8192"	"8193"	"8194"	"8195"	"8196"	"8197"	"8198"	"8199"
##	[8200]	"8200"	"8201"	"8202"	"8203"	"8204"	"8205"	"8206"	"8207"	"8208"

##	[8209]	"8209"	"8210"	"8211"	"8212"	"8213"	"8214"	"8215"	"8216"	"8217"
##	[8218]	"8218"	"8219"	"8220"	"8221"	"8222"	"8223"	"8224"	"8225"	"8226"
##	[8227]	"8227"	"8228"	"8229"	"8230"	"8231"	"8232"	"8233"	"8234"	"8235"
##	[8236]	"8236"	"8237"	"8238"	"8239"	"8240"	"8241"	"8242"	"8243"	"8244"
##	[8245]	"8245"	"8246"	"8247"	"8248"	"8249"	"8250"	"8251"	"8252"	"8253"
##	[8254]	"8254"	"8255"	"8256"	"8257"	"8258"	"8259"	"8260"	"8261"	"8262"
##	[8263]	"8263"	"8264"	"8265"	"8266"	"8267"	"8268"	"8269"	"8270"	"8271"
##	[8272]	"8272"	"8273"	"8274"	"8275"	"8276"	"8277"	"8278"	"8279"	"8280"
##	[8281]	"8281"	"8282"	"8283"	"8284"	"8285"	"8286"	"8287"	"8288"	"8289"
##	[8290]	"8290"	"8291"	"8292"	"8293"	"8294"	"8295"	"8296"	"8297"	"8298"
##	[8299]	"8299"	"8300"	"8301"	"8302"	"8303"	"8304"	"8305"	"8306"	"8307"
##	[8308]	"8308"	"8309"	"8310"	"8311"	"8312"	"8313"	"8314"	"8315"	"8316"
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##	[8326]	"8326"	"8327"	"8328"	"8329"	"8330"	"8331"	"8332"	"8333"	"8334"
##	[8335]	"8335"	"8336"	"8337"	"8338"	"8339"	"8340"	"8341"	"8342"	"8343"
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##	[8362]	"8362"	"8363"	"8364"	"8365"	"8366"	"8367"	"8368"	"8369"	"8370"
##	[8371]	"8371"	"8372"	"8373"	"8374"	"8375"	"8376"	"8377"	"8378"	"8379"
##	[8380]	"8380"	"8381"	"8382"	"8383"	"8384"	"8385"	"8386"	"8387"	"8388"
##	[8389]	"8389"	"8390"	"8391"	"8392"	"8393"	"8394"	"8395"	"8396"	"8397"
##	[8398]	"8398"	"8399"	"8400"	"8401"	"8402"	"8403"	"8404"	"8405"	"8406"
##	[8407]	"8407"	"8408"	"8409"	"8410"	"8411"	"8412"	"8413"	"8414"	"8415"
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##	[8434]	"8434"	"8435"	"8436"	"8437"	"8438"	"8439"	"8440"	"8441"	"8442"
##	[8443]	"8443"	"8444"	"8445"	"8446"	"8447"	"8448"	"8449"	"8450"	"8451"
##	[8452]	"8452"	"8453"	"8454"	"8455"	"8456"	"8457"	"8458"	"8459"	"8460"
##	[8461]	"8461"	"8462"	"8463"	"8464"	"8465"	"8466"	"8467"	"8468"	"8469"
##	[8470]	"8470"	"8471"	"8472"	"8473"	"8474"	"8475"	"8476"	"8477"	"8478"
##	[8479]	"8479"	"8480"	"8481"	"8482"	"8483"	"8484"	"8485"	"8486"	"8487"
##	[8488]	"8488"	"8489"	"8490"	"8491"	"8492"	"8493"	"8494"	"8495"	"8496"
##	[8497]	"8497"	"8498"	"8499"	"8500"	"8501"	"8502"	"8503"	"8504"	"8505"
##	[8506]	"8506"	"8507"	"8508"	"8509"	"8510"	"8511"	"8512"	"8513"	"8514"
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##	[8578]	"8578"	"8579"	"8580"	"8581"	"8582"	"8583"	"8584"	"8585"	"8586"
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##	[8668]	"8668"	"8669"	"8670"	"8671"	"8672"	"8673"	"8674"	"8675"	"8676"
##	[8677]	"8677"	"8678"	"8679"	"8680"	"8681"	"8682"	"8683"	"8684"	"8685"
##	[8686]	"8686"	"8687"	"8688"	"8689"	"8690"	"8691"	"8692"	"8693"	"8694"

##	[8695]	"8695"	"8696"	"8697"	"8698"	"8699"	"8700"	"8701"	"8702"	"8703"
##	[8704]	"8704"	"8705"	"8706"	"8707"	"8708"	"8709"	"8710"	"8711"	"8712"
##	[8713]	"8713"	"8714"	"8715"	"8716"	"8717"	"8718"	"8719"	"8720"	"8721"
##	[8722]	"8722"	"8723"	"8724"	"8725"	"8726"	"8727"	"8728"	"8729"	"8730"
##	[8731]	"8731"	"8732"	"8733"	"8734"	"8735"	"8736"	"8737"	"8738"	"8739"
##	[8740]	"8740"	"8741"	"8742"	"8743"	"8744"	"8745"	"8746"	"8747"	"8748"
##	[8749]	"8749"	"8750"	"8751"	"8752"	"8753"	"8754"	"8755"	"8756"	"8757"
##	[8758]	"8758"	"8759"	"8760"	"8761"	"8762"	"8763"	"8764"	"8765"	"8766"
##	[8767]	"8767"	"8768"	"8769"	"8770"	"8771"	"8772"	"8773"	"8774"	"8775"
##	[8776]	"8776"	"8777"	"8778"	"8779"	"8780"	"8781"	"8782"	"8783"	"8784"
##	[8785]	"8785"	"8786"	"8787"	"8788"	"8789"	"8790"	"8791"	"8792"	"8793"
##	[8794]	"8794"	"8795"	"8796"	"8797"	"8798"	"8799"	"8800"	"8801"	"8802"
##	[8803]	"8803"	"8804"	"8805"	"8806"	"8807"	"8808"	"8809"	"8810"	"8811"
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##	[8875]	"8875"	"8876"	"8877"	"8878"	"8879"	"8880"	"8881"	"8882"	"8883"
##	[8884]	"8884"	"8885"	"8886"	"8887"	"8888"	"8889"	"8890"	"8891"	"8892"
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##	[8902]	"8902"	"8903"	"8904"	"8905"	"8906"	"8907"	"8908"	"8909"	"8910"
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##	[8947]	"8947"	"8948"	"8949"	"8950"	"8951"	"8952"	"8953"	"8954"	"8955"
##	[8956]	"8956"	"8957"	"8958"	"8959"	"8960"	"8961"	"8962"	"8963"	"8964"
##	[8965]	"8965"	"8966"	"8967"	"8968"	"8969"	"8970"	"8971"	"8972"	"8973"
##	[8974]	"8974"	"8975"	"8976"	"8977"	"8978"	"8979"	"8980"	"8981"	"8982"
##	[8983]	"8983"	"8984"	"8985"	"8986"	"8987"	"8988"	"8989"	"8990"	"8991"
##	[8992]	"8992"	"8993"	"8994"	"8995"	"8996"	"8997"	"8998"	"8999"	"9000"
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##	[9010]	"9010"	"9011"	"9012"	"9013"	"9014"	"9015"	"9016"	"9017"	"9018"
##	[9019]	"9019"	"9020"	"9021"	"9022"	"9023"	"9024"	"9025"	"9026"	"9027"
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##	[9046]	"9046"	"9047"	"9048"	"9049"	"9050"	"9051"	"9052"	"9053"	"9054"
##	[9055]	"9055"	"9056"	"9057"	"9058"	"9059"	"9060"	"9061"	"9062"	"9063"
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##	[9073]	"9073"	"9074"	"9075"	"9076"	"9077"	"9078"	"9079"	"9080"	"9081"
##	[9082]	"9082"	"9083"	"9084"	"9085"	"9086"	"9087"	"9088"	"9089"	"9090"
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##	[9118]	"9118"	"9119"	"9120"	"9121"	"9122"	"9123"	"9124"	"9125"	"9126"
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##	[9154]	"9154"	"9155"	"9156"	"9157"	"9158"	"9159"	"9160"	"9161"	"9162"
##	[9163]	"9163"	"9164"	"9165"	"9166"	"9167"	"9168"	"9169"	"9170"	"9171"
##	[9172]	"9172"	"9173"	"9174"	"9175"	"9176"	"9177"	"9178"	"9179"	"9180"

##	[9181]	"9181"	"9182"	"9183"	"9184"	"9185"	"9186"	"9187"	"9188"	"9189"
##	[9190]	"9190"	"9191"	"9192"	"9193"	"9194"	"9195"	"9196"	"9197"	"9198"
##	[9199]	"9199"	"9200"	"9201"	"9202"	"9203"	"9204"	"9205"	"9206"	"9207"
##	[9208]	"9208"	"9209"	"9210"	"9211"	"9212"	"9213"	"9214"	"9215"	"9216"
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##	[9226]	"9226"	"9227"	"9228"	"9229"	"9230"	"9231"	"9232"	"9233"	"9234"
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##	[9244]	"9244"	"9245"	"9246"	"9247"	"9248"	"9249"	"9250"	"9251"	"9252"
##	[9253]	"9253"	"9254"	"9255"	"9256"	"9257"	"9258"	"9259"	"9260"	"9261"
##	[9262]	"9262"	"9263"	"9264"	"9265"	"9266"	"9267"	"9268"	"9269"	"9270"
##	[9271]	"9271"	"9272"	"9273"	"9274"	"9275"	"9276"	"9277"	"9278"	"9279"
##	[9280]	"9280"	"9281"	"9282"	"9283"	"9284"	"9285"	"9286"	"9287"	"9288"
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##	[9298]	"9298"	"9299"	"9300"	"9301"	"9302"	"9303"	"9304"	"9305"	"9306"
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##	[9334]	"9334"	"9335"	"9336"	"9337"	"9338"	"9339"	"9340"	"9341"	"9342"
##	[9343]	"9343"	"9344"	"9345"	"9346"	"9347"	"9348"	"9349"	"9350"	"9351"
##	[9352]	"9352"	"9353"	"9354"	"9355"	"9356"	"9357"	"9358"	"9359"	"9360"
##	[9361]	"9361"	"9362"	"9363"	"9364"	"9365"	"9366"	"9367"	"9368"	"9369"
##	[9370]	"9370"	"9371"	"9372"	"9373"	"9374"	"9375"	"9376"	"9377"	"9378"
##	[9379]	"9379"	"9380"	"9381"	"9382"	"9383"	"9384"	"9385"	"9386"	"9387"
##	[9388]	"9388"	"9389"	"9390"	"9391"	"9392"	"9393"	"9394"	"9395"	"9396"
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##	[9406]	"9406"	"9407"	"9408"	"9409"	"9410"	"9411"	"9412"	"9413"	"9414"
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##	[9433]	"9433"	"9434"	"9435"	"9436"	"9437"	"9438"	"9439"	"9440"	"9441"
##	[9442]	"9442"	"9443"	"9444"	"9445"	"9446"	"9447"	"9448"	"9449"	"9450"
##	[9451]	"9451"	"9452"	"9453"	"9454"	"9455"	"9456"	"9457"	"9458"	"9459"
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##	[9469]	"9469"	"9470"	"9471"	"9472"	"9473"	"9474"	"9475"	"9476"	"9477"
##	[9478]	"9478"	"9479"	"9480"	"9481"	"9482"	"9483"	"9484"	"9485"	"9486"
##	[9487]	"9487"	"9488"	"9489"	"9490"	"9491"	"9492"	"9493"	"9494"	"9495"
##	[9496]	"9496"	"9497"	"9498"	"9499"	"9500"	"9501"	"9502"	"9503"	"9504"
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##	[9550]	"9550"	"9551"	"9552"	"9553"	"9554"	"9555"	"9556"	"9557"	"9558"
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##	[9568]	"9568"	"9569"	"9570"	"9571"	"9572"	"9573"	"9574"	"9575"	"9576"
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##	[9586]	"9586"	"9587"	"9588"	"9589"	"9590"	"9591"	"9592"	"9593"	"9594"
##	[9595]	"9595"	"9596"	"9597"	"9598"	"9599"	"9600"	"9601"	"9602"	"9603"
##	[9604]	"9604"	"9605"	"9606"	"9607"	"9608"	"9609"	"9610"	"9611"	"9612"
##	[9613]	"9613"	"9614"	"9615"	"9616"	"9617"	"9618"	"9619"	"9620"	"9621"
##	[9622]	"9622"	"9623"	"9624"	"9625"	"9626"	"9627"	"9628"	"9629"	"9630"
##	[9631]	"9631"	"9632"	"9633"	"9634"	"9635"	"9636"	"9637"	"9638"	"9639"
##	[9640]	"9640"	"9641"	"9642"	"9643"	"9644"	"9645"	"9646"	"9647"	"9648"
##	[9649]	"9649"	"9650"	"9651"	"9652"	"9653"	"9654"	"9655"	"9656"	"9657"
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 ## [19738] "19738" "19739" "19740" "19741" "19742" "19743" "19744" "19745" "19746"
 ## [19747] "19747" "19748" "19749" "19750" "19751" "19752" "19753" "19754" "19755"
 ## [19756] "19756" "19757" "19758" "19759" "19760" "19761" "19762" "19763" "19764"
 ## [19765] "19765" "19766" "19767" "19768" "19769" "19770" "19771" "19772" "19773"
 ## [19774] "19774" "19775" "19776" "19777" "19778" "19779" "19780" "19781" "19782"
 ## [19783] "19783" "19784" "19785" "19786" "19787" "19788" "19789" "19790" "19791"
 ## [19792] "19792" "19793" "19794" "19795" "19796" "19797" "19798" "19799" "19800"
 ## [19801] "19801" "19802" "19803" "19804" "19805" "19806" "19807" "19808" "19809"
 ## [19810] "19810" "19811" "19812" "19813" "19814" "19815" "19816" "19817" "19818"
 ## [19819] "19819" "19820" "19821" "19822" "19823" "19824" "19825" "19826" "19827"
 ## [19828] "19828" "19829" "19830" "19831" "19832" "19833" "19834" "19835" "19836"
 ## [19837] "19837" "19838" "19839" "19840" "19841" "19842" "19843" "19844" "19845"
 ## [19846] "19846" "19847" "19848" "19849" "19850" "19851" "19852" "19853" "19854"
 ## [19855] "19855" "19856" "19857" "19858" "19859" "19860" "19861" "19862" "19863"
 ## [19864] "19864" "19865" "19866" "19867" "19868" "19869" "19870" "19871" "19872"

```
## [19873] "19873" "19874" "19875" "19876" "19877" "19878" "19879" "19880" "19881"
## [19882] "19882" "19883" "19884" "19885" "19886" "19887" "19888" "19889" "19890"
## [19891] "19891" "19892" "19893" "19894" "19895" "19896" "19897" "19898" "19899"
## [19900] "19900" "19901" "19902" "19903" "19904" "19905" "19906" "19907" "19908"
## [19909] "19909" "19910" "19911" "19912" "19913" "19914" "19915" "19916" "19917"
## [19918] "19918" "19919" "19920" "19921" "19922" "19923" "19924" "19925" "19926"
## [19927] "19927" "19928" "19929" "19930" "19931" "19932" "19933" "19934" "19935"
## [19936] "19936" "19937" "19938" "19939" "19940" "19941" "19942" "19943" "19944"
## [19945] "19945" "19946" "19947" "19948" "19949" "19950" "19951" "19952" "19953"
## [19954] "19954" "19955" "19956" "19957" "19958" "19959" "19960" "19961" "19962"
## [19963] "19963" "19964" "19965" "19966" "19967" "19968" "19969" "19970" "19971"
## [19972] "19972" "19973" "19974" "19975" "19976" "19977" "19978" "19979" "19980"
## [19981] "19981" "19982" "19983" "19984" "19985" "19986" "19987" "19988" "19989"
## [19990] "19990" "19991" "19992" "19993" "19994" "19995" "19996" "19997" "19998"
## [19999] "19999" "20000"
##
## $class
## [1] "data.frame"
```

```
attach(db)
names(db)
```

```
## [1] "age"
## [2] "class.of.worker"
## [3] "detailed.industry.recode"
## [4] "detailed.occupation.recode"
## [5] "education"
## [6] "wage.per.hour"
## [7] "marital.stat"
## [8] "major.industry.code"
## [9] "major.occupation.code"
## [10] "race"
## [11] "hispanic.origin"
## [12] "sex"
## [13] "full.or.part.time.employment.stat"
## [14] "capital.gains"
## [15] "capital.losses"
## [16] "dividends.from.stocks"
## [17] "tax.filer.stat"
## [18] "detailed.household.and.family.stat"
## [19] "detailed.household.summary.in.household"
## [20] "instance.weight"
## [21] "num.persons.worked.for.employer"
## [22] "country.of.birth.father"
## [23] "country.of.birth.mother"
## [24] "country.of.birth.self"
## [25] "citizenship"
## [26] "veterans.benefits"
## [27] "weeks.worked.in.year"
## [28] "income"
```

```
#is R understanding well my factor variables?
sapply(db,class)
```

```
##                age                class.of.worker
##                "integer"                "factor"
```

```

##          detailed.industry.recode          detailed.occupation.recode
##                  "factor"                  "factor"
##          education                      wage.per.hour
##                  "factor"                  "integer"
##          marital.stat                    major.industry.code
##                  "factor"                  "factor"
##          major.occupation.code              race
##                  "factor"                  "factor"
##          hispanic.origin                  sex
##                  "factor"                  "factor"
##          full.or.part.time.employment.stat capital.gains
##                  "factor"                  "integer"
##          capital.losses                    dividends.from.stocks
##                  "integer"                  "integer"
##          tax.filer.stat                    detailed.household.and.family.stat
##                  "factor"                  "factor"
##          detailed.household.summary.in.household instance.weight
##                  "factor"                  "numeric"
##          num.persons.worked.for.employer country.of.birth.father
##                  "integer"                  "factor"
##          country.of.birth.mother          country.of.birth.self
##                  "factor"                  "factor"
##          citizenship                      veterans.benefits
##                  "factor"                  "factor"
##          weeks.worked.in.year              income
##                  "integer"                  "factor"

```

```

numeriques<-which(sapply(db,is.numeric))
numeriques

```

```

##          age          wage.per.hour
##          1          6
##          capital.gains          capital.losses
##          14          15
##          dividends.from.stocks          instance.weight
##          16          20
##          num.persons.worked.for.employer          weeks.worked.in.year
##          21          27

```

```

categorics<-which(sapply(db,is.factor))
categorics

```

```

##          class.of.worker          detailed.industry.recode
##          2          3
##          detailed.occupation.recode          education
##          4          5
##          marital.stat          major.industry.code
##          7          8
##          major.occupation.code          race
##          9          10
##          hispanic.origin          sex
##          11          12
##          full.or.part.time.employment.stat          tax.filer.stat
##          13          17
##          detailed.household.and.family.stat detailed.household.summary.in.household

```

```
##                                18                                19
##          country.of.birth.father          country.of.birth.mother
##                                22                                23
##          country.of.birth.self                                citizenship
##                                24                                25
##          veterans.benefits                                income
##                                26                                28
```

```
# Load the dplyr package
#install.packages("dplyr")
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
# Select only the categorical variables
numerical_data <- select_if(db, is.numeric)
categorical_data <- select_if(db, is.character)
```

```
# Perform PCA on the data
pca <- prcomp(numerical_data, scale. = TRUE)
```

```
# View the results
summary(pca)
```

```
## Importance of components:
##          PC1    PC2    PC3    PC4    PC5    PC6    PC7
## Standard deviation    1.3985 1.0942 1.0070 0.9990 0.9531 0.9393 0.89216
## Proportion of Variance 0.2445 0.1497 0.1268 0.1247 0.1135 0.1103 0.09949
## Cumulative Proportion 0.2445 0.3941 0.5209 0.6456 0.7592 0.8695 0.96895
##          PC8
## Standard deviation    0.49838
## Proportion of Variance 0.03105
## Cumulative Proportion 1.00000
```

```
#install.packages("corrplot")
```

```
# Load the corrplot package
library(corrplot)
```

```
## corrplot 0.92 loaded
```

```
# View the correlation matrix only of the numerical values
cor_mat<- cor(numerical_data)
# Set the upper triangle elements to NA
cor_mat[upper.tri(cor_mat)] <- NA
```

```
corrplot(cor_mat, method="circle")
```

