New York State Museum
Mark Schaming, Director

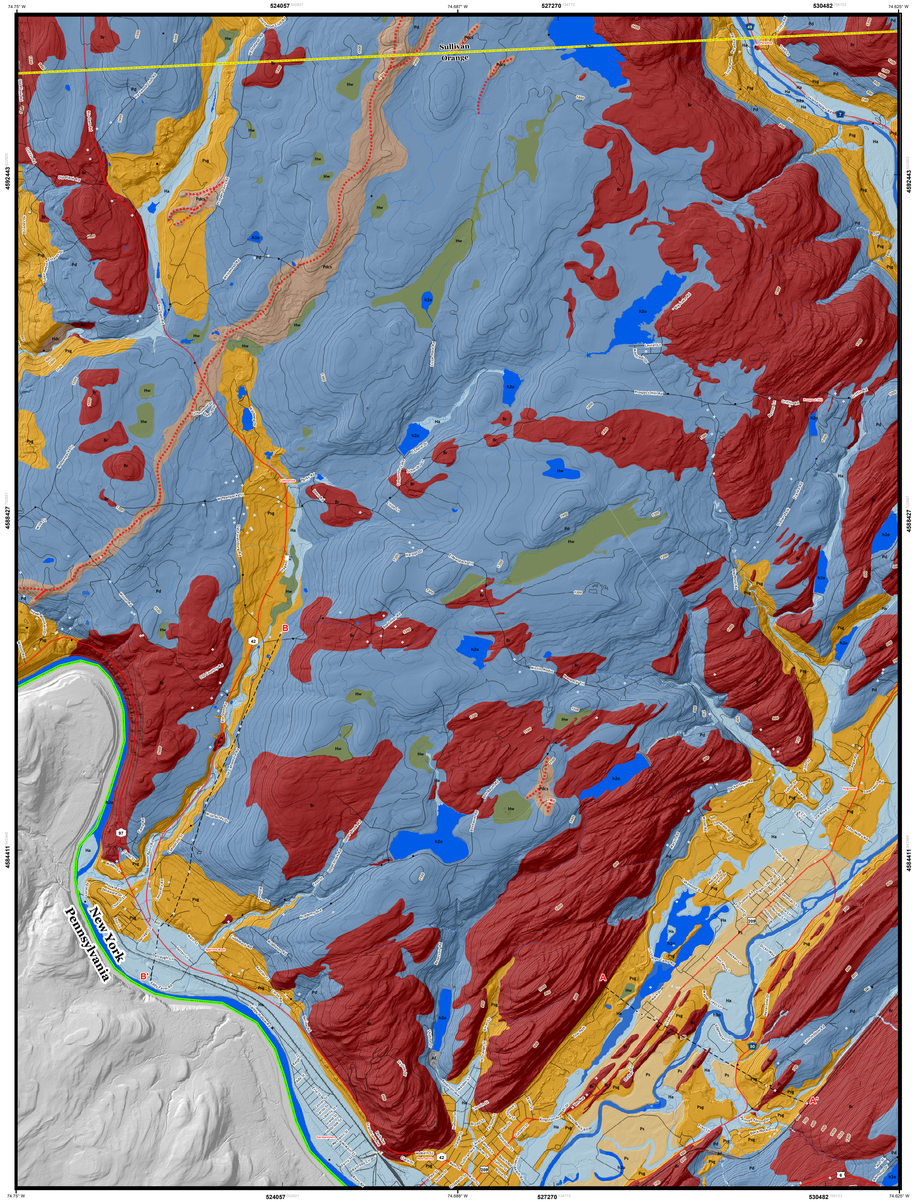
New York State Geological Survey

SURFICIAL GEOLOGY OF THE PORT JERVIS NORTH 7.5-MINUTE QUADRANGLE, ORANGE AND SULLIVAN COUNTIES, NEW YORK

prepared by

James R. Leone and Karl J. Backhaus

Supported in part by the National Park Service Task Agreement Number P17AC01044 in the year 2017.


74.75° W
524057
74.688° W
527270
530482
74.625° W
4582443
4580427
4578411
Sullivan
Orange
New York
Pennsylvania
A
A'
B
B'
#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
#26
#27
#28
#29
#30
#31
#32
#33
#34
#35
#36
#37
#38
#39
#40
#41
#42
#43
#44
#45
#46
#47
#48
#49
#50
#51
#52
#53
#54
#55
#56
#57
#58
#59
#60
#61
#62
#63
#64
#65
#66
#67
#68
#69
#70
#71
#72
#73
#74
#75
#76
#77
#78
#79
#80
#81
#82
#83
#84
#85
#86
#87
#88
#89
#90
#91
#92
#93
#94
#95
#96
#97
#98
#99
#100
#101
#102
#103
#104
#105
#106
#107
#108
#109
#110
#111
#112
#113
#114
#115
#116
#117
#118
#119
#120
#121
#122
#123
#124
#125
#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
#202
#203
#204
#205
#206
#207
#208
#209
#210
#211
#212
#213
#214
#215
#216
#217
#218
#219
#220
#221
#222
#223
#224
#225
#226
#227
#228
#229
#230
#231
#232
#233
#234
#235
#236
#237
#238
#239
#240
#241
#242
#243
#244
#245
#246
#247
#248
#249
#250
#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
#276
#277
#278
#279
#280
#281
#282
#283
#284
#285
#286
#287
#288
#289
#290
#291
#292
#293
#294
#295
#296
#297
#298
#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
#378
#379
#380
#381
#382
#383
#384
#385
#386
#387
#388
#389
#390
#391
#392
#393
#394
#395
#396
#397
#398
#399
#400
#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
#429
#430
#431
#432
#433
#434
#435
#436
#437
#438
#439
#440
#441
#442
#443
#444
#445
#446
#447
#448
#449
#450
#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
#501
#502
#503
#504
#505
#506
#507
#508
#509
#510
#511
#512
#513
#514
#515
#516
#517
#518
#519
#520
#521
#522
#523
#524
#525
#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
#576
#577
#578
#579
#580
#581
#582
#583
#584
#585
#586
#587
#588
#589
#590
#591
#592
#593
#594
#595
#596
#597
#598
#599
#600
#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
#634
#635
#636
#637
#638
#639
#640
#641
#642
#643
#644
#645
#646
#647
#648
#649
#650
#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
#676
#677
#678
#679
#680
#681
#682
#683
#684
#685
#686
#687
#688
#689
#690
#691
#692
#693
#694
#695
#696
#697
#698
#699
#700
#701
#702
#703
#704
#705
#706
#707
#708
#709
#710
#711
#712
#713
#714
#715
#716
#717
#718
#719
#720
#721
#722
#723
#724
#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
#751
#752
#753
#754
#755
#756
#757
#758
#759
#760
#761
#762
#763
#764
#765
#766
#767
#768
#769
#770
#771
#772
#773
#774
#775
#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
#801
#802
#803
#804
#805
#806
#807
#808
#809
#810
#811
#812
#813
#814
#815
#816
#817
#818
#819
#820
#821
#822
#823
#824
#825
#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
#876
#877
#878
#879
#880
#881
#882
#883
#884
#885
#886
#887
#888
#889
#890
#891
#892
#893
#894
#895
#896
#897
#898
#899
#900
#901
#902
#903
#904
#905
#906
#907
#908
#909
#910
#911
#912
#913
#914
#915
#916
#917
#918
#919
#920
#921
#922
#923
#924
#925
#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
#1030
#1031
#1032
#1033
#1034
#1035
#1036
#1037
#1038
#1039
#1040
#1041
#1042
#1043
#1044
#1045
#1046
#1047
#1048
#1049
#1050
#1051
#1052
#1053
#1054
#1055
#1056
#1057
#1058
#1059
#1060
#1061
#1062
#1063
#1064
#1065
#1066
#1067
#1068
#1069
#1070
#1071
#1072
#1073
#1074
#1075
#1076
#1077
#1078
#1079
#1080
#1081
#1082
#1083
#1084
#1085
#1086
#1087
#1088
#1089
#1090
#1091
#1092
#1093
#1094
#1095
#1096
#1097
#1098
#1099
#1100
#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
#1129
#1130
#1131
#1132
#1133
#1134
#1135
#1136
#1137
#1138
#1139
#1140
#1141
#1142
#1143
#1144
#1145
#1146
#1147
#1148
#1149
#1150
#1151
#1152
#1153
#1154
#1155
#1156
#1157
#1158
#1159
#1160
#1161
#1162
#1163
#1164
#1165
#1166
#1167
#1168
#1169
#1170
#1171
#1172
#1173
#1174
#1175
#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
#1202
#1203
#1204
#1205
#1206
#1207
#1208
#1209
#1210
#1211
#1212
#1213
#1214
#1215
#1216
#1217
#1218
#1219
#1220
#1221
#1222
#1223
#1224
#1225
#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
#1251
#1252
#1253
#1254
#1255
#1256
#1257
#1258
#1259
#1260
#1261
#1262
#1263
#1264
#1265
#1266
#1267
#1268
#1269
#1270
#1271
#1272
#1273
#1274
#1275
#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
#1376
#1377
#1378
#1379
#1380
#1381
#1382
#1383
#1384
#1385
#1386
#1387
#1388
#1389
#1390
#1391
#1392
#1393
#1394
#1395
#1396
#1397
#1398
#1399
#1400
#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
#1428
#1429
#1430
#1431
#1432
#1433
#1434
#1435
#1436
#1437
#1438
#1439
#1440
#1441
#1442
#1443
#1444
#1445
#1446
#1447
#1448
#1449
#1450
#1451
#1452
#1453
#1454
#1455
#1456
#1457
#1458
#1459
#1460
#1461
#1462
#1463
#1464
#1465
#1466
#1467
#1468
#1469
#1470
#1471
#1472
#1473
#1474
#1475
#1476
#1477
#1478
#1479
#1480
#1481
#1482
#1483
#1484
#1485
#1486
#1487
#1488
#1489
#1490
#1491
#1492
#1493
#1494
#1495
#1496
#1497
#1498
#1499
#1500
#1501
#1502
#1503
#1504
#1505
#1506
#1507
#1508
#1509
#1510
#1511
#1512
#1513
#1514
#1515
#1516
#1517
#1518
#1519
#1520
#1521
#1522
#1523
#1524
#1525
#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
#1554
#1555
#1556
#1557
#1558
#1559
#1560
#1561
#1562
#1563
#1564
#1565
#1566
#1567
#1568
#1569
#1570
#1571
#1572
#1573
#1574
#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
#1726
#1727
#1728
#1729
#1730
#1731
#1732
#1733
#1734
#1735
#1736
#1737
#1738
#1739
#1740
#1741
#1742
#1743
#1744
#1745
#1746
#1747
#1748
#1749
#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
#1804
#1805
#1806
#1807
#1808
#1809
#1810
#1811
#1812
#1813
#1814
#1815
#1816
#1817
#1818
#1819
#1820
#1821
#1822
#1823
#1824
#1825
#1826
#1827
#1828
#1829
#1830
#1831
#1832
#1833
#1834
#1835
#1836
#1837
#1838
#1839
#1840
#1841
#1842
#1843
#1844
#1845
#1846
#1847
#1848
#1849
#1850
#1851
#1852
#1853
#1854
#1855
#1856
#1857
#1858
#1859
#1860
#1861
#1862
#1863
#1864
#1865
#1866
#1867
#1868
#1869
#1870
#1871
#1872
#1873
#1874
#1875
#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
#1905
#1906
#1907
#1908
#1909
#1910
#1911
#1912
#1913
#1914
#1915
#1916
#1917
#1918
#1919
#1920
#1921
#1922
#1923
#1924
#1925
#1926
#1927
#1928
#1929
#1930
#1931
#1932
#1933
#1934
#1935
#1936
#1937
#1938
#1939
#1940
#1941
#1942
#1943
#1944
#1945
#1946
#1947
#1948
#1949
#1950
#1951
#1952
#1953
#1954
#1955
#1956
#1957
#1958
#1959
#1960
#1961
#1962
#1963
#1964
#1965
#1966
#1967
#1968
#1969
#1970
#1971
#1972
#1973
#1974
#1975
#1976
#1977
#1978
#1979
#1980
#1981
#1982
#1983
#1984
#1985
#1986
#1987
#1988
#1989
#1990
#1991
#1992
#1993
#1994
#1995
#1996
#1997
#1998
#1999
#2000
#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
#2076
#2077
#2078
#2079
#2080
#2081
#2082
#2083
#2084
#2085
#2086
#2087
#2088
#2089
#2090
#2091
#2092
#2093
#2094
#2095
#2096
#2097
#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
#2151
#2152
#2153
#2154
#2155
#2156
#2157
#2158
#2159
#2160
#2161
#2162
#2163
#2164
#2165
#2166
#2167
#2168
#2169
#2170
#2171
#2172
#2173
#2174
#2175
#2176
#2177
#2178
#2179
#2180
#2181
#2182
#2183
#2184
#2185
#2186
#2187
#2188
#2189
#2190
#2191
#2192
#2193
#2194
#2195
#2196
#2197
#2198
#2199
#2200
#2201
#2202
#2203
#2204
#2205
#2206
#2207
#2208
#2209
#2210
#2211
#2212
#2213
#2214
#2215
#2216
#2217
#2218
#2219
#2220
#2221
#2222
#2223
#2224
#2225
#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
#2252
#2253
#2254
#2255
#2256
#2257
#2258
#2259
#2260
#2261
#2262
#2263
#2264
#2265
#2266
#2267
#2268
#2269
#2270
#2271
#2272
#2273
#2274
#2275
#2276
#2277
#2278
#2279
#2280
#2281
#2282
#2283
#2284
#2285
#2286
#2287
#2288
#2289
#2290
#2291
#2292
#2293
#2294
#2295
#2296
#2297
#2298
#2299
#2300
#2301
#2302
#2303
#2304
#2305
#2306
#2307
#2308
#2309
#2310
#2311
#2312
#2313
#2314
#2315
#2316
#2317
#2318
#2319
#2320
#2321
#2322
#2323
#2324
#2325
#2326
#2327
#2328
#2329
#2330
#2331
#2332
#2333
#2334
#2335
#2336
#2337
#2338
#2339
#2340
#2341
#2342
#2343
#2344
#2345
#2346
#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
#2377
#2378
#2379
#2380
#2381
#2382
#2383
#2384
#2385
#2386
#2387
#2388
#2389
#2390
#2391
#2392
#2393
#2394
#2395
#2396
#2397
#2398
#2399
#2400
#2401
#2402
#2403
#2404
#2405
#2406
#2407
#2408
#2409
#2410
#2411
#2412
#2413
#2414
#2415
#2416
#2417
#2418
#2419
#2420
#2421
#2422
#2423
#2424
#2425
#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
#2452
#2453
#2454
#2455
#2456
#2457
#2458
#2459
#2460
#2461
#2462
#2463
#2464
#2465
#2466
#2467
#2468
#2469
#2470
#2471
#2472
#2473
#2474
#2475
#2476
#2477
#2478
#2479
#2480
#2481
#2482
#2483
#2484
#2485
#2486
#2487
#2488
#2489
#2490
#2491
#2492
#2493
#2494
#2495
#2496
#2497
#2498
#2499
#2500
#2501
#2502
#2503
#2504
#2505
#2506
#2507
#2508
#2509
#2510
#2511
#2512
#2513
#2514
#2515
#2516
#2517
#2518
#2519
#2520
#2521
#2522
#2523
#2524
#2525
#2526
#2527
#2528
#2529
#2530
#2531
#2532
#2533
#2534
#2535
#2536
#2537
#2538
#2539
#2540
#2541
#2542
#2543
#2544
#2545
#2546
#2547
#2548
#2549
#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
#2629
#2630
#2631
#2632
#2633
#2634
#2635
#2636
#2637
#2638
#2639
#2640
#2641
#2642
#2643
#2644
#2645
#2646
#2647
#2648
#2649
#2650
#2651
#2652
#2653
#2654
#2655
#2656
#2657
#2658
#2659
#2660
#2661
#2662
#2663
#2664
#2665
#2666
#2667
#2668
#2669
#2670
#2671
#2672
#2673
#2674
#2675
#2676
#2677
#2678
#2679
#2680
#2681
#2682
#2683
#2684
#2685
#2686
#2687
#2688
#2689
#2690
#2691
#2692
#2693
#2694
#2695
#2696
#2697
#2698
#2699
#2700
#2701
#2702
#2703
#2704
#2705
#2706
#2707
#2708
#2709
#2710
#2711
#2712
#2713
#2714
#2715
#2716
#2717
#2718
#2719
#2720
#2721
#2722
#2723
#2724
#2725
#2726
#2727
#2728
#2729
#2730
#2731
#2732
#2733
#2734
#2735
#2736
#2737
#2738
#2739
#2740
#2741
#2742
#2743
#2744
#2745
#2746
#2747
#2748
#2749
#2750
#2751
#2752
#2753
#2754
#2755
#2756
#2757
#2758
#2759
#2760
#2761
#2762
#2763
#2764
#2765
#2766
#2767
#2768
#2769
#2770
#2771
#2772
#2773
#2774
#2775
#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
#2802
#2803
#2804
#2805
#2806
#2807
#2808
#2809
#2810
#2811
#2812
#2813
#2814
#2815
#2816
#2817
#2818
#2819
#2820
#2821
#2822
#2823
#2824
#2825
#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
#2851
#2852
#2853
#2854
#2855
#2856
#2857
#2858
#2859
#2860
#2861
#2862
#2863
#2864
#2865
#2866
#2867
#2868
#2869
#2870
#2871
#2872
#2873
#2874
#2875
#2876
#2877
#2878
#2879
#2880
#2881
#2882
#2883
#2884
#2885
#2886
#2887
#2888
#2889
#2890
#2891
#2892
#2893
#2894
#2895
#2896
#2897
#2898
#2899
#2900
#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
#2953
#2954
#2955
#2956
#2957
#2958
#2959
#2960
#2961
#2962
#2963
#2964
#2965
#2966
#2967
#2968
#2969
#2970
#2971
#2972
#2973
#2974
#2975
#2976
#2977
#2978
#2979
#2980
#2981
#2982
#2983
#2984
#2985
#2986
#2987
#2988
#2989
#2990
#2991
#2992
#2993
#2994
#2995
#2996
#2997
#2998
#2999
#3000
#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
#3035
#3036
#3037
#3038
#3039
#3040
#3041
#3042
#3043
#3044
#3045
#3046
#3047
#3048
#3049
#3050
#3051
#3052
#3053
#3054
#3055
#3056
#3057
#3058
#3059
#3060
#3061
#3062
#3063
#3064
#3065
#3066
#3067
#3068
#3069
#3070
#3071
#3072
#3073
#3074
#3075
#3076
#3077
#3078
#3079
#3080
#3081
#3082
#3083
#3084
#3085
#3086
#3087
#3088
#3089
#3090
#3091
#3092
#3093
#3094
#3095
#3096
#3097
#3098
#3099
#3100
#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
#3151
#3152
#3153
#3154
#3155
#3156
#3157
#3158
#3159
#3160
#3161
#3162
#3163
#3164
#3165
#3166
#3167
#3168
#3169
#3170
#3171
#3172
#3173
#3174
#3175
#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
#3228
#3229
#3230
#3231
#3232
#3233
#3234
#3235
#3236
#3237
#3238
#3239
#3240
#3241
#3242
#3243
#3244
#3245
#3246
#3247
#3248
#3249
#3250
#3251
#3252
#3253
#3254
#3255
#3256
#3257
#3258
#3259
#3260
#3261
#3262
#3263
#3264
#3265
#3266
#3267
#3268
#3269
#3270
#3271
#3272
#3273
#3274
#3275
#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
#3302
#3303
#3304
#3305
#3306
#3307
#3308
#3309
#3310
#3311
#3312
#3313
#3314
#3315
#3316
#3317
#3318
#3319
#3320
#3321
#3322
#3323
#3324
#3325
#3326
#3327
#3328
#3329
#3330
#3331
#3332
#3333
#3334
#3335
#3336
#3337
#3338
#3339
#3340
#3341
#3342
#3343
#3344
#3345
#3346
#3347
#3348
#3349
#3350
#3351
#3352
#3353
#3354
#3355
#3356
#3357
#3358
#3359
#3360
#3361
#3362
#3363
#3364
#3365
#3366
#3367
#3368
#3369
#3370
#3371
#3372
#3373
#3374
#3375
#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
#3404
#3405
#3406
#3407
#3408
#3409
#3410
#3411
#3412
#3413
#3414
#3415
#3416
#3417
#3418
#3419
#3420
#3421
#3422
#3423
#3424
#3425
#3426
#3427
#3428
#3429
#3430
#3431
#3432
#3433
#3434
#3435
#3436
#3437
#3438
#3439
#3440
#3441
#3442
#3443
#3444
#3445
#3446
#3447
#3448
#3449
#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
#3476
#3477
#3478
#3479
#3480
#3481
#3482
#3483
#3484
#3485
#3486
#3487
#3488
#3489
#3490
#3491
#3492
#3493
#3494
#3495
#3496
#3497
#3498
#3499
#3500
#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
#3551
#3552
#3553
#3554
#3555
#3556
#3557
#3558
#3559
#3560
#3561
#3562
#3563
#3564
#3565
#3566
#3567
#3568
#3569
#3570
#3571
#3572
#3573
#3574
#3575
#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
#3701
#3702
#3703
#3704
#3705
#3706
#3707
#3708
#3709
#3710
#3711
#3712
#3713
#3714
#3715
#3716
#3717
#3718
#3719
#3720
#3721
#3722
#3723
#3724
#3725
#3726
#3727
#3728
#3729
#3730
#3731
#3732
#3733
#3734
#3735
#3736
#3737
#3738
#3739
#3740
#3741
#3742
#3743
#3744
#3745
#3746
#3747
#3748
#3749
#3750
#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
#3782
#3783
#3784
#3785
#3786
#3787
#3788
#3789
#3790
#3791
#3792
#3793
#3794
#3795
#3796
#3797
#3798
#3799
#3800
#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
#3876
#3877
#3878
#3879
#3880
#3881
#3882
#3883
#3884
#3885
#3886
#3887
#3888
#3889
#3890
#3891
#3892
#3893
#3894
#3895
#3896
#3897
#3898
#3899
#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
#3930
#3931
#3932
#3933
#3934
#3935
#3936
#3937
#3938
#3939
#3940
#3941
#3942
#3943
#3944
#3945
#3946
#3947
#3948
#3949
#3950
#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
#3979
#3980
#3981
#3982
#3983
#3984
#3985
#3986
#3987
#3988
#3989
#3990
#3991
#3992
#3993
#3994
#3995
#3996
#3997
#3998
#3999
#4000
#4001
#4002
#4003
#4004
#4005
#4006
#4007
#4008
#4009
#4010
#4011
#4012
#4013
#4014
#4015
#4016
#4017
#4018
#4019
#4020
#4021
#4022
#4023
#4024
#4025
#4026
#4027
#4028
#4029
#4030
#4031
#4032
#4033
#4034
#4035
#4036
#4037
#4038
#4039
#4040
#4041
#4042
#4043
#4044
#4045
#4046
#4047
#4048
#4049
#4050
#4051
#4052
#4053
#4054
#4055
#4056
#4057
#4058
#4059
#4060
#4061
#4062
#4063
#4064
#4065
#4066
#4067
#4068
#4069
#4070
#4071
#4072
#4073
#4074
#4075
#4076
#4077
#4078
#4079
#4080
#4081
#4082
#4083
#4084
#4085
#4086
#4087
#4088
#4089
#4090
#4091
#4092
#4093
#4094
#4095
#4096
#4097
#4098
#4099
#4100
#4101
#4102
#4103
#4104
#4105
#4106
#4107
#4108
#4109
#4110
#4111
#4112
#4113
#4114
#4115
#4116
#4117
#4118
#4119
#4120
#4121
#4122
#4123
#4124
#4125
#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
#4151
#4152
#4153
#4154
#4155
#4156
#4157
#4158
#4