Degree of parallelism: 2

| cutoff: | 50000 | 10times Time:1397ms, Array's Length:2000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:824ms, Array's Length:2000000 |
| cutoff: | 150000 | 10times Time:840ms, Array's Length:2000000 |
| cutoff: | 200000 | 10times Time:843ms, Array's Length:2000000 |
| cutoff: | 250000 | 10times Time:847ms, Array's Length:2000000 |
| cutoff: | 300000 | 10times Time:863ms, Array's Length:2000000 |
| cutoff: | 350000 | 10times Time:891ms, Array's Length:2000000 |
| cutoff: | 400000 | 10times Time:887ms, Array's Length:2000000 |
| cutoff: | 450000 | 10times Time:901ms, Array's Length:2000000 |
| cutoff: | 500000 | 10times Time:958ms, Array's Length:2000000 |
| cutoff: | 550000 | 10times Time:958ms, Array's Length:2000000 |
| cutoff: | 600000 | 10times Time:945ms, Array's Length:2000000 |
| cutoff: | 650000 | 10times Time:944ms, Array's Length:2000000 |
| cutoff: | 700000 | 10times Time:939ms, Array's Length:2000000 |
| cutoff: | 750000 | 10times Time:947ms, Array's Length:2000000 |
| cutoff: | 800000 | 10times Time:932ms, Array's Length:2000000 |

| cutoff: | 850000 | 10times Time:943ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 900000 | 10times Time:934ms, Array's Length:2000000 |
| cutoff: | 950000 | 10times Time:924ms, Array's Length:2000000 |
| cutoff: | 1000000 | 10times Time:924ms, Array's Length:2000000 |
| cutoff: | 1050000 | 10times Time:855ms, Array's Length:2000000 |
| cutoff: | 1100000 | 10times Time:859ms, Array's Length:2000000 |
| cutoff: | 1150000 | 10times Time:853ms, Array's Length:2000000 |
| cutoff: | 1200000 | 10times Time:854ms, Array's Length:2000000 |
| cutoff: | 1250000 | 10times Time:855ms, Array's Length:2000000 |
| cutoff: | 1300000 | 10times Time:852ms, Array's Length:2000000 |
| cutoff: | 1350000 | 10times Time:855ms, Array's Length:2000000 |
| cutoff: | 1400000 | 10times Time:854ms, Array's Length:2000000 |
| cutoff: | 1450000 | 10times Time:856ms, Array's Length:2000000 |
| cutoff: | 1500000 | 10times Time:855ms, Array's Length:2000000 |
| cutoff: | 1550000 | 10times Time:859ms, Array's Length:2000000 |
| cutoff: | 1600000 | 10times Time:857ms, Array's Length:2000000 |
| cutoff: | 1650000 | 10times Time:855ms, Array's Length:2000000 |
| cutoff: | 1700000 | 10times Time:855ms, Array's Length:2000000 |

| cutoff: | 1750000 | 10times Time:859ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 1800000 | 10times Time:850ms, Array's Length:2000000 |
| cutoff: | 1850000 | 10times Time:850ms, Array's Length:2000000 |
| cutoff: | 1900000 | 10times Time:854ms, Array's Length:2000000 |
| cutoff: | 1950000 | 10times Time:850ms, Array's Length:2000000 |
| cutoff: | 2000000 | 10times Time:854ms, Array's Length:2000000 |

| cutoff: 50000 | 10times Time:1610ms, Array's Length:4000000 |
|----------------|---|
| cutoff: 100000 | 10times Time:1383ms, Array's Length:4000000 |
| cutoff: 150000 | 10times Time:1487ms, Array's Length:4000000 |
| cutoff: 200000 | 10times Time:1463ms, Array's Length:4000000 |
| cutoff: 250000 | 10times Time:1435ms, Array's Length:4000000 |
| cutoff: 300000 | 10times Time:1536ms, Array's Length:4000000 |
| cutoff: 350000 | 10times Time:1587ms, Array's Length:4000000 |
| cutoff: 400000 | 10times Time:1566ms, Array's Length:4000000 |
| cutoff: 450000 | 10times Time:1567ms, Array's Length:4000000 |
| cutoff: 500000 | 10times Time:1562ms, Array's Length:4000000 |
| cutoff: 550000 | 10times Time:1734ms, Array's Length:4000000 |

| cutoff: | 600000 | 10times Time:1691ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 650000 | 10times Time:1672ms, Array's Length:4000000 |
| cutoff: | 700000 | 10times Time:1696ms, Array's Length:4000000 |
| cutoff: | 750000 | 10times Time:1651ms, Array's Length:4000000 |
| cutoff: | 800000 | 10times Time:1621ms, Array's Length:4000000 |
| cutoff: | 850000 | 10times Time:1699ms, Array's Length:4000000 |
| cutoff: | 900000 | 10times Time:1708ms, Array's Length:4000000 |
| cutoff: | 950000 | 10times Time:1698ms, Array's Length:4000000 |
| cutoff: | 1000000 | 10times Time:1688ms, Array's Length:4000000 |
| cutoff: | 1050000 | 10times Time:1823ms, Array's Length:4000000 |
| cutoff: | 1100000 | 10times Time:1810ms, Array's Length:4000000 |
| cutoff: | 1150000 | 10times Time:1811ms, Array's Length:4000000 |
| cutoff: | 1200000 | 10times Time:1844ms, Array's Length:4000000 |
| cutoff: | 1250000 | 10times Time:1790ms, Array's Length:4000000 |
| cutoff: | 1300000 | 10times Time:1823ms, Array's Length:4000000 |
| cutoff: | 1350000 | 10times Time:1831ms, Array's Length:4000000 |
| cutoff: | 1400000 | 10times Time:1811ms, Array's Length:4000000 |
| cutoff: | 1450000 | 10times Time:1831ms, Array's Length:4000000 |

| cutoff: | 1500000 | 10times Time:1821ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 1550000 | 10times Time:1811ms, Array's Length:4000000 |
| cutoff: | 1600000 | 10times Time:1780ms, Array's Length:4000000 |
| cutoff: | 1650000 | 10times Time:1834ms, Array's Length:4000000 |
| cutoff: | 1700000 | 10times Time:1829ms, Array's Length:4000000 |
| cutoff: | 1750000 | 10times Time:1824ms, Array's Length:4000000 |
| cutoff: | 1800000 | 10times Time:1819ms, Array's Length:4000000 |
| cutoff: | 1850000 | 10times Time:1826ms, Array's Length:4000000 |
| cutoff: | 1900000 | 10times Time:1818ms, Array's Length:4000000 |
| cutoff: | 1950000 | 10times Time:1844ms, Array's Length:4000000 |
| cutoff: | 2000000 | 10times Time:1817ms, Array's Length:4000000 |

| cutoff: | 50000 | 10times Time:1965ms, Array's Length:6000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:2147ms, Array's Length:6000000 |
| cutoff: | 150000 | 10times Time:2141ms, Array's Length:6000000 |
| cutoff: | 200000 | 10times Time:2221ms, Array's Length:6000000 |
| cutoff: | 250000 | 10times Time:2260ms, Array's Length:6000000 |
| cutoff: | 300000 | 10times Time:2218ms, Array's Length:6000000 |

| cutoff: | 350000 | 10times Time:2294ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 400000 | 10times Time:2349ms, Array's Length:6000000 |
| cutoff: | 450000 | 10times Time:2386ms, Array's Length:6000000 |
| cutoff: | 500000 | 10times Time:2436ms, Array's Length:6000000 |
| cutoff: | 550000 | 10times Time:2475ms, Array's Length:6000000 |
| cutoff: | 600000 | 10times Time:2426ms, Array's Length:6000000 |
| cutoff: | 650000 | 10times Time:2369ms, Array's Length:6000000 |
| cutoff: | 700000 | 10times Time:2394ms, Array's Length:6000000 |
| cutoff: | 750000 | 10times Time:2376ms, Array's Length:6000000 |
| cutoff: | 800000 | 10times Time:2530ms, Array's Length:6000000 |
| cutoff: | 850000 | 10times Time:2562ms, Array's Length:6000000 |
| cutoff: | 900000 | 10times Time:2512ms, Array's Length:6000000 |
| cutoff: | 950000 | 10times Time:2491ms, Array's Length:6000000 |
| cutoff: | 1000000 | 10times Time:2509ms, Array's Length:6000000 |
| cutoff: | 1050000 | 10times Time:2391ms, Array's Length:6000000 |
| cutoff: | 1100000 | 10times Time:2534ms, Array's Length:6000000 |
| cutoff: | 1150000 | 10times Time:2585ms, Array's Length:6000000 |
| cutoff: | 1200000 | 10times Time:2596ms, Array's Length:6000000 |

| cutoff: | 1250000 | 10times Time:2622ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 1300000 | 10times Time:2527ms, Array's Length:6000000 |
| cutoff: | 1350000 | 10times Time:2517ms, Array's Length:6000000 |
| cutoff: | 1400000 | 10times Time:2464ms, Array's Length:6000000 |
| cutoff: | 1450000 | 10times Time:2505ms, Array's Length:6000000 |
| cutoff: | 1500000 | 10times Time:2567ms, Array's Length:6000000 |
| cutoff: | 1550000 | 10times Time:2793ms, Array's Length:6000000 |
| cutoff: | 1600000 | 10times Time:2789ms, Array's Length:6000000 |
| cutoff: | 1650000 | 10times Time:2733ms, Array's Length:6000000 |
| cutoff: | 1700000 | 10times Time:2778ms, Array's Length:6000000 |
| cutoff: | 1750000 | 10times Time:2765ms, Array's Length:6000000 |
| cutoff: | 1800000 | 10times Time:2760ms, Array's Length:6000000 |
| cutoff: | 1850000 | 10times Time:2747ms, Array's Length:6000000 |
| cutoff: | 1900000 | 10times Time:2766ms, Array's Length:6000000 |
| cutoff: | 1950000 | 10times Time:2822ms, Array's Length:6000000 |
| cutoff: | 2000000 | 10times Time:2813ms, Array's Length:6000000 |

cutoff: 50000 10times Time:2740ms, Array's Length:8000000

| cutoff: | 100000 | 10times Time:2626ms, Array's Length:8000000 |
|---------|--------|---|
| cutoff: | 150000 | 10times Time:2806ms, Array's Length:8000000 |
| cutoff: | 200000 | 10times Time:2847ms, Array's Length:8000000 |
| cutoff: | 250000 | 10times Time:2738ms, Array's Length:8000000 |
| cutoff: | 300000 | 10times Time:2896ms, Array's Length:8000000 |
| cutoff: | 350000 | 10times Time:3067ms, Array's Length:8000000 |
| cutoff: | 400000 | 10times Time:2808ms, Array's Length:8000000 |
| cutoff: | 450000 | 10times Time:2912ms, Array's Length:8000000 |
| cutoff: | 500000 | 10times Time:2962ms, Array's Length:8000000 |
| cutoff: | 550000 | 10times Time:3232ms, Array's Length:8000000 |
| cutoff: | 600000 | 10times Time:3204ms, Array's Length:8000000 |
| cutoff: | 650000 | 10times Time:3084ms, Array's Length:8000000 |
| cutoff: | 700000 | 10times Time:3163ms, Array's Length:8000000 |
| cutoff: | 750000 | 10times Time:3040ms, Array's Length:8000000 |
| cutoff: | 800000 | 10times Time:3132ms, Array's Length:8000000 |
| cutoff: | 850000 | 10times Time:3309ms, Array's Length:8000000 |
| cutoff: | 900000 | 10times Time:3153ms, Array's Length:8000000 |
| cutoff: | 950000 | 10times Time:3172ms, Array's Length:8000000 |

| cutoff: | 1000000 | 10times Time:3209ms, Array's Length:8000000 |
|---------|---------|---|
| cutoff: | 1050000 | 10times Time:3599ms, Array's Length:8000000 |
| cutoff: | 1100000 | 10times Time:3468ms, Array's Length:8000000 |
| cutoff: | 1150000 | 10times Time:3273ms, Array's Length:8000000 |
| cutoff: | 1200000 | 10times Time:3443ms, Array's Length:8000000 |
| cutoff: | 1250000 | 10times Time:3456ms, Array's Length:8000000 |
| cutoff: | 1300000 | 10times Time:3361ms, Array's Length:8000000 |
| cutoff: | 1350000 | 10times Time:3453ms, Array's Length:8000000 |
| cutoff: | 1400000 | 10times Time:3377ms, Array's Length:8000000 |
| cutoff: | 1450000 | 10times Time:3440ms, Array's Length:8000000 |
| cutoff: | 1500000 | 10times Time:3460ms, Array's Length:8000000 |
| cutoff: | 1550000 | 10times Time:3432ms, Array's Length:8000000 |
| cutoff: | 1600000 | 10times Time:3363ms, Array's Length:8000000 |
| cutoff: | 1650000 | 10times Time:3399ms, Array's Length:8000000 |
| cutoff: | 1700000 | 10times Time:3388ms, Array's Length:8000000 |
| cutoff: | 1750000 | 10times Time:3309ms, Array's Length:8000000 |
| cutoff: | 1800000 | 10times Time:3450ms, Array's Length:8000000 |
| cutoff: | 1850000 | 10times Time:3562ms, Array's Length:8000000 |

cutoff: 1900000 10times Time:3396ms, Array's Length:8000000

cutoff: 1950000 10times Time:3422ms, Array's Length:8000000

cutoff: 2000000 10times Time:3407ms, Array's Length:8000000

Degree of parallelism: 4

cutoff: 50000 10times Time:1235ms, Array's Length:2000000

cutoff: 100000 10times Time:688ms, Array's Length:2000000

cutoff: 150000 10times Time:639ms, Array's Length:2000000

cutoff: 200000 10times Time:605ms, Array's Length:2000000

cutoff: 250000 10times Time:604ms, Array's Length:2000000

cutoff: 300000 10times Time:616ms, Array's Length:2000000

cutoff: 350000 10times Time:623ms, Array's Length:2000000

cutoff: 400000 10times Time:614ms, Array's Length:2000000

cutoff: 450000 10times Time:618ms, Array's Length:2000000

cutoff: 500000 10times Time:615ms, Array's Length:2000000

| cutoff: | 550000 | 10times Time:582ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 600000 | 10times Time:588ms, Array's Length:2000000 |
| cutoff: | 650000 | 10times Time:585ms, Array's Length:2000000 |
| cutoff: | 700000 | 10times Time:578ms, Array's Length:2000000 |
| cutoff: | 750000 | 10times Time:586ms, Array's Length:2000000 |
| cutoff: | 800000 | 10times Time:590ms, Array's Length:2000000 |
| cutoff: | 850000 | 10times Time:583ms, Array's Length:2000000 |
| cutoff: | 900000 | 10times Time:585ms, Array's Length:2000000 |
| cutoff: | 950000 | 10times Time:618ms, Array's Length:2000000 |
| cutoff: | 1000000 | 10times Time:580ms, Array's Length:2000000 |
| cutoff: | 1050000 | 10times Time:820ms, Array's Length:2000000 |
| cutoff: | 1100000 | 10times Time:817ms, Array's Length:2000000 |
| cutoff: | 1150000 | 10times Time:816ms, Array's Length:2000000 |
| cutoff: | 1200000 | 10times Time:814ms, Array's Length:2000000 |
| cutoff: | 1250000 | 10times Time:811ms, Array's Length:2000000 |
| cutoff: | 1300000 | 10times Time:814ms, Array's Length:2000000 |
| cutoff: | 1350000 | 10times Time:828ms, Array's Length:2000000 |
| cutoff: | 1400000 | 10times Time:813ms, Array's Length:2000000 |

| cutoff: | 1450000 | 10times Time:829ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 1500000 | 10times Time:844ms, Array's Length:2000000 |
| cutoff: | 1550000 | 10times Time:818ms, Array's Length:2000000 |
| cutoff: | 1600000 | 10times Time:818ms, Array's Length:2000000 |
| cutoff: | 1650000 | 10times Time:819ms, Array's Length:2000000 |
| cutoff: | 1700000 | 10times Time:822ms, Array's Length:2000000 |
| cutoff: | 1750000 | 10times Time:821ms, Array's Length:2000000 |
| cutoff: | 1800000 | 10times Time:822ms, Array's Length:2000000 |
| cutoff: | 1850000 | 10times Time:822ms, Array's Length:2000000 |
| cutoff: | 1900000 | 10times Time:826ms, Array's Length:2000000 |
| cutoff: | 1950000 | 10times Time:822ms, Array's Length:2000000 |
| cutoff: | 2000000 | 10times Time:807ms, Array's Length:2000000 |

| cutoff: | 50000 | 10times Time:1331ms, Array's Length:4000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:1080ms, Array's Length:4000000 |
| cutoff: | 150000 | 10times Time:1111ms, Array's Length:4000000 |
| cutoff: | 200000 | 10times Time:1115ms, Array's Length:4000000 |
| cutoff: | 250000 | 10times Time:1115ms, Array's Length:4000000 |

| cutoff: | 300000 | 10times Time:1166ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 350000 | 10times Time:1165ms, Array's Length:4000000 |
| cutoff: | 400000 | 10times Time:1176ms, Array's Length:4000000 |
| cutoff: | 450000 | 10times Time:1172ms, Array's Length:4000000 |
| cutoff: | 500000 | 10times Time:1220ms, Array's Length:4000000 |
| cutoff: | 550000 | 10times Time:1246ms, Array's Length:4000000 |
| cutoff: | 600000 | 10times Time:1252ms, Array's Length:4000000 |
| cutoff: | 650000 | 10times Time:1222ms, Array's Length:4000000 |
| cutoff: | 700000 | 10times Time:1207ms, Array's Length:4000000 |
| cutoff: | 750000 | 10times Time:1230ms, Array's Length:4000000 |
| cutoff: | 800000 | 10times Time:1211ms, Array's Length:4000000 |
| cutoff: | 850000 | 10times Time:1221ms, Array's Length:4000000 |
| cutoff: | 900000 | 10times Time:1201ms, Array's Length:4000000 |
| cutoff: | 950000 | 10times Time:1209ms, Array's Length:4000000 |
| cutoff: | 1000000 | 10times Time:1202ms, Array's Length:4000000 |
| cutoff: | 1050000 | 10times Time:1141ms, Array's Length:4000000 |
| cutoff: | 1100000 | 10times Time:1142ms, Array's Length:4000000 |
| cutoff: | 1150000 | 10times Time:1144ms, Array's Length:4000000 |

| cutoff: | 1200000 | 10times Time:1148ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 1250000 | 10times Time:1150ms, Array's Length:4000000 |
| cutoff: | 1300000 | 10times Time:1148ms, Array's Length:4000000 |
| cutoff: | 1350000 | 10times Time:1144ms, Array's Length:4000000 |
| cutoff: | 1400000 | 10times Time:1143ms, Array's Length:4000000 |
| cutoff: | 1450000 | 10times Time:1146ms, Array's Length:4000000 |
| cutoff: | 1500000 | 10times Time:1146ms, Array's Length:4000000 |
| cutoff: | 1550000 | 10times Time:1148ms, Array's Length:4000000 |
| cutoff: | 1600000 | 10times Time:1149ms, Array's Length:4000000 |
| cutoff: | 1650000 | 10times Time:1148ms, Array's Length:4000000 |
| cutoff: | 1700000 | 10times Time:1143ms, Array's Length:4000000 |
| cutoff: | 1750000 | 10times Time:1145ms, Array's Length:4000000 |
| cutoff: | 1800000 | 10times Time:1149ms, Array's Length:4000000 |
| cutoff: | 1850000 | 10times Time:1148ms, Array's Length:4000000 |
| cutoff: | 1900000 | 10times Time:1146ms, Array's Length:4000000 |
| cutoff: | 1950000 | 10times Time:1149ms, Array's Length:4000000 |
| cutoff: | 2000000 | 10times Time:1145ms, Array's Length:4000000 |

| cutoff: 50000 10times Time:1697ms, Array's Length:6000000 |
|---|
|---|

| cutoff: | 50000 | 10times Time:1697ms, Array's Length:6000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:1665ms, Array's Length:6000000 |
| cutoff: | 150000 | 10times Time:1666ms, Array's Length:6000000 |
| cutoff: | 200000 | 10times Time:1688ms, Array's Length:6000000 |
| cutoff: | 250000 | 10times Time:1700ms, Array's Length:6000000 |
| cutoff: | 300000 | 10times Time:1722ms, Array's Length:6000000 |
| cutoff: | 350000 | 10times Time:1706ms, Array's Length:6000000 |
| cutoff: | 400000 | 10times Time:1754ms, Array's Length:6000000 |
| cutoff: | 450000 | 10times Time:1786ms, Array's Length:6000000 |
| cutoff: | 500000 | 10times Time:1796ms, Array's Length:6000000 |
| cutoff: | 550000 | 10times Time:1777ms, Array's Length:6000000 |
| cutoff: | 600000 | 10times Time:1767ms, Array's Length:6000000 |
| cutoff: | 650000 | 10times Time:1787ms, Array's Length:6000000 |
| cutoff: | 700000 | 10times Time:1734ms, Array's Length:6000000 |
| cutoff: | 750000 | 10times Time:1756ms, Array's Length:6000000 |
| cutoff: | 800000 | 10times Time:1845ms, Array's Length:6000000 |
| cutoff: | 850000 | 10times Time:1844ms, Array's Length:6000000 |
| cutoff: | 900000 | 10times Time:1854ms, Array's Length:6000000 |

| cutoff: | 950000 | 10times Time:1849ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 1000000 | 10times Time:1852ms, Array's Length:6000000 |
| cutoff: | 1050000 | 10times Time:1839ms, Array's Length:6000000 |
| cutoff: | 1100000 | 10times Time:1838ms, Array's Length:6000000 |
| cutoff: | 1150000 | 10times Time:1859ms, Array's Length:6000000 |
| cutoff: | 1200000 | 10times Time:1846ms, Array's Length:6000000 |
| cutoff: | 1250000 | 10times Time:1841ms, Array's Length:6000000 |
| cutoff: | 1300000 | 10times Time:1933ms, Array's Length:6000000 |
| cutoff: | 1350000 | 10times Time:1867ms, Array's Length:6000000 |
| cutoff: | 1400000 | 10times Time:1847ms, Array's Length:6000000 |
| cutoff: | 1450000 | 10times Time:1841ms, Array's Length:6000000 |
| cutoff: | 1500000 | 10times Time:1844ms, Array's Length:6000000 |
| cutoff: | 1550000 | 10times Time:1749ms, Array's Length:6000000 |
| cutoff: | 1600000 | 10times Time:1753ms, Array's Length:6000000 |
| cutoff: | 1650000 | 10times Time:1765ms, Array's Length:6000000 |
| cutoff: | 1700000 | 10times Time:1769ms, Array's Length:6000000 |
| cutoff: | 1750000 | 10times Time:1769ms, Array's Length:6000000 |
| cutoff: | 1800000 | 10times Time:1760ms, Array's Length:6000000 |

| cutoff: | 1850000 | 10times Time:1756ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 1900000 | 10times Time:1754ms, Array's Length:6000000 |
| cutoff: | 1950000 | 10times Time:1756ms, Array's Length:6000000 |
| cutoff: | 2000000 | 10times Time:1752ms, Array's Length:6000000 |

| cutoff: 50000 | 10times Time:2374ms, Array's Length:8000000 |
|----------------|---|
| cutoff: 100000 | 10times Time:2237ms, Array's Length:8000000 |
| cutoff: 150000 | 10times Time:2261ms, Array's Length:8000000 |
| cutoff: 200000 | 10times Time:2253ms, Array's Length:8000000 |
| cutoff: 250000 | 10times Time:2250ms, Array's Length:8000000 |
| cutoff: 300000 | 10times Time:2289ms, Array's Length:8000000 |
| cutoff: 350000 | 10times Time:2295ms, Array's Length:8000000 |
| cutoff: 400000 | 10times Time:2288ms, Array's Length:8000000 |
| cutoff: 450000 | 10times Time:2289ms, Array's Length:8000000 |
| cutoff: 500000 | 10times Time:2269ms, Array's Length:8000000 |
| cutoff: 550000 | 10times Time:2387ms, Array's Length:8000000 |
| cutoff: 600000 | 10times Time:2388ms, Array's Length:8000000 |
| cutoff: 650000 | 10times Time:2382ms, Array's Length:8000000 |

| cutoff: | 700000 | 10times Time:2369ms, Array's Length:8000000 |
|---------|---------|---|
| cutoff: | 750000 | 10times Time:2399ms, Array's Length:8000000 |
| cutoff: | 800000 | 10times Time:2381ms, Array's Length:8000000 |
| cutoff: | 850000 | 10times Time:2407ms, Array's Length:8000000 |
| cutoff: | 900000 | 10times Time:2433ms, Array's Length:8000000 |
| cutoff: | 950000 | 10times Time:2358ms, Array's Length:8000000 |
| cutoff: | 1000000 | 10times Time:2436ms, Array's Length:8000000 |
| cutoff: | 1050000 | 10times Time:2473ms, Array's Length:8000000 |
| cutoff: | 1100000 | 10times Time:2481ms, Array's Length:8000000 |
| cutoff: | 1150000 | 10times Time:2477ms, Array's Length:8000000 |
| cutoff: | 1200000 | 10times Time:2467ms, Array's Length:8000000 |
| cutoff: | 1250000 | 10times Time:2482ms, Array's Length:8000000 |
| cutoff: | 1300000 | 10times Time:2495ms, Array's Length:8000000 |
| cutoff: | 1350000 | 10times Time:2484ms, Array's Length:8000000 |
| cutoff: | 1400000 | 10times Time:2488ms, Array's Length:8000000 |
| cutoff: | 1450000 | 10times Time:2479ms, Array's Length:8000000 |
| cutoff: | 1500000 | 10times Time:2480ms, Array's Length:8000000 |
| cutoff: | 1550000 | 10times Time:2484ms, Array's Length:8000000 |

| cutoff: | 1600000 | 10times Time:2491ms, Array's Length:8000000 |
|---------|---------|---|
| cutoff: | 1650000 | 10times Time:2472ms, Array's Length:8000000 |
| cutoff: | 1700000 | 10times Time:2478ms, Array's Length:8000000 |
| cutoff: | 1750000 | 10times Time:2476ms, Array's Length:8000000 |
| cutoff: | 1800000 | 10times Time:2483ms, Array's Length:8000000 |
| cutoff: | 1850000 | 10times Time:2534ms, Array's Length:8000000 |
| cutoff: | 1900000 | 10times Time:2478ms, Array's Length:8000000 |
| cutoff: | 1950000 | 10times Time:2481ms, Array's Length:8000000 |
| cutoff: | 2000000 | 10times Time:2487ms, Array's Length:8000000 |

Degree of parallelism: 8

| cutoff: 500 | JOO 10times Fi | me:1313ms, Array's Leng | th:2000000 |
|-------------|----------------|--------------------------|-------------|
| cutoff: 100 | 0000 10times | Time:570ms, Array's Leng | gth:2000000 |
| cutoff: 150 |)000 10times | Time:551ms, Array's Len | gth:2000000 |
| cutoff: 200 |)000 10times | Time:550ms, Array's Len | gth:2000000 |
| cutoff: 250 | 0000 10times | Time:547ms, Array's Len | gth:2000000 |

| cutoff: | 300000 | 10times Time:553ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 350000 | 10times Time:554ms, Array's Length:2000000 |
| cutoff: | 400000 | 10times Time:554ms, Array's Length:2000000 |
| cutoff: | 450000 | 10times Time:548ms, Array's Length:2000000 |
| cutoff: | 500000 | 10times Time:560ms, Array's Length:2000000 |
| cutoff: | 550000 | 10times Time:587ms, Array's Length:2000000 |
| cutoff: | 600000 | 10times Time:580ms, Array's Length:2000000 |
| cutoff: | 650000 | 10times Time:584ms, Array's Length:2000000 |
| cutoff: | 700000 | 10times Time:585ms, Array's Length:2000000 |
| cutoff: | 750000 | 10times Time:580ms, Array's Length:2000000 |
| cutoff: | 800000 | 10times Time:579ms, Array's Length:2000000 |
| cutoff: | 850000 | 10times Time:580ms, Array's Length:2000000 |
| cutoff: | 900000 | 10times Time:578ms, Array's Length:2000000 |
| cutoff: | 950000 | 10times Time:584ms, Array's Length:2000000 |
| cutoff: | 1000000 | 10times Time:581ms, Array's Length:2000000 |
| cutoff: | 1050000 | 10times Time:813ms, Array's Length:2000000 |
| cutoff: | 1100000 | 10times Time:814ms, Array's Length:2000000 |
| cutoff: | 1150000 | 10times Time:812ms, Array's Length:2000000 |

| cutoff: | 1200000 | 10times Time:812ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 1250000 | 10times Time:859ms, Array's Length:2000000 |
| cutoff: | 1300000 | 10times Time:826ms, Array's Length:2000000 |
| cutoff: | 1350000 | 10times Time:829ms, Array's Length:2000000 |
| cutoff: | 1400000 | 10times Time:820ms, Array's Length:2000000 |
| cutoff: | 1450000 | 10times Time:820ms, Array's Length:2000000 |
| cutoff: | 1500000 | 10times Time:819ms, Array's Length:2000000 |
| cutoff: | 1550000 | 10times Time:814ms, Array's Length:2000000 |
| cutoff: | 1600000 | 10times Time:816ms, Array's Length:2000000 |
| cutoff: | 1650000 | 10times Time:816ms, Array's Length:2000000 |
| cutoff: | 1700000 | 10times Time:808ms, Array's Length:2000000 |
| cutoff: | 1750000 | 10times Time:820ms, Array's Length:2000000 |
| cutoff: | 1800000 | 10times Time:815ms, Array's Length:2000000 |
| cutoff: | 1850000 | 10times Time:850ms, Array's Length:2000000 |
| cutoff: | 1900000 | 10times Time:812ms, Array's Length:2000000 |
| cutoff: | 1950000 | 10times Time:839ms, Array's Length:2000000 |
| cutoff: | 2000000 | 10times Time:825ms, Array's Length:2000000 |

| cutoff: | 50000 | 10times | Time:1 | 1427ms. | Arrav's | Length:40000 | 00 |
|---------|-------|---------|--------|---------|---------|--------------|----|
| | | | | | | | |

| cutoff: 5000 | 00 10times Time:1 | 427ms, Array's Length:40 | 00000 |
|--------------|-------------------|--------------------------|----------|
| cutoff: 1000 | 000 10times Time | e:1141ms, Array's Length | :4000000 |
| cutoff: 1500 | 000 10times Time | e:1021ms, Array's Length | :4000000 |
| cutoff: 2000 | 000 10times Time | e:1050ms, Array's Length | :4000000 |
| cutoff: 2500 | 000 10times Time | e:1023ms, Array's Length | :4000000 |
| cutoff: 3000 | 000 10times Time | e:1051ms, Array's Length | :4000000 |
| cutoff: 3500 | 000 10times Time | e:1022ms, Array's Length | :4000000 |
| cutoff: 4000 | 000 10times Time | e:1039ms, Array's Length | :4000000 |
| cutoff: 4500 | 000 10times Time | e:1037ms, Array's Length | :4000000 |
| cutoff: 5000 | 000 10times Time | e:1030ms, Array's Length | :4000000 |
| cutoff: 5500 | 000 10times Time | e:1019ms, Array's Length | :4000000 |
| cutoff: 6000 | 000 10times Time | e:1133ms, Array's Length | :4000000 |
| cutoff: 6500 | 000 10times Time | e:1038ms, Array's Length | :4000000 |
| cutoff: 7000 | 000 10times Time | e:1046ms, Array's Length | :4000000 |
| cutoff: 7500 | 000 10times Time | e:1054ms, Array's Length | :4000000 |
| cutoff: 8000 | 000 10times Time | e:1035ms, Array's Length | :4000000 |
| cutoff: 8500 | 000 10times Time | e:1042ms, Array's Length | :4000000 |
| cutoff: 9000 | 000 10times Time | e:1028ms, Array's Length | :4000000 |

| cutoff: | 950000 | 10times Time:1112ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 1000000 | 10times Time:1139ms, Array's Length:4000000 |
| cutoff: | 1050000 | 10times Time:1174ms, Array's Length:4000000 |
| cutoff: | 1100000 | 10times Time:1150ms, Array's Length:4000000 |
| cutoff: | 1150000 | 10times Time:1148ms, Array's Length:4000000 |
| cutoff: | 1200000 | 10times Time:1156ms, Array's Length:4000000 |
| cutoff: | 1250000 | 10times Time:1145ms, Array's Length:4000000 |
| cutoff: | 1300000 | 10times Time:1217ms, Array's Length:4000000 |
| cutoff: | 1350000 | 10times Time:1176ms, Array's Length:4000000 |
| cutoff: | 1400000 | 10times Time:1157ms, Array's Length:4000000 |
| cutoff: | 1450000 | 10times Time:1151ms, Array's Length:4000000 |
| cutoff: | 1500000 | 10times Time:1148ms, Array's Length:4000000 |
| cutoff: | 1550000 | 10times Time:1143ms, Array's Length:4000000 |
| cutoff: | 1600000 | 10times Time:1146ms, Array's Length:4000000 |
| cutoff: | 1650000 | 10times Time:1149ms, Array's Length:4000000 |
| cutoff: | 1700000 | 10times Time:1157ms, Array's Length:4000000 |
| cutoff: | 1750000 | 10times Time:1146ms, Array's Length:4000000 |
| cutoff: | 1800000 | 10times Time:1143ms, Array's Length:4000000 |

| cutoff: | 1850000 | 10times Time:1151ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 1900000 | 10times Time:1165ms, Array's Length:4000000 |
| cutoff: | 1950000 | 10times Time:1164ms, Array's Length:4000000 |
| cutoff: | 2000000 | 10times Time:1173ms, Array's Length:4000000 |

| cutoff: 50 |)000 10 [.] | times Tin | ne:1934m | s, Array | 's Lengt | th:60000 | 00 |
|------------|----------------------|----------------------|-----------|----------|----------|----------|------|
| cutoff: 10 | 00000 | 10times ⁻ | Time:1698 | Bms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 15 | 50000 | 10times ⁻ | Time:1672 | ?ms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 20 | 00000 | 10times ⁻ | Time:1778 | Bms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 25 | 50000 | 10times ⁻ | Time:1610 |)ms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 30 | 00000 | 10times ⁻ | Time:1598 | Bms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 35 | 50000 | 10times ⁻ | Time:1565 | īms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 40 | 00000 | 10times ⁻ | Time:1548 | Bms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 45 | 50000 | 10times ⁻ | Time:1553 | Bms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 50 | 00000 | 10times ⁻ | Time:1543 | Bms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 55 | 50000 | 10times [·] | Time:1538 | Bms, Arr | ay's Lei | ngth:600 | 0000 |
| cutoff: 60 | 00000 | 10times | Time:1564 | lms, Arr | ay's Le | ngth:600 | 0000 |
| cutoff: 65 | 50000 | 10times | Time:1541 | ms, Arr | ay's Le | ngth:600 | 0000 |

| cutoff: | 700000 | 10times Time:1543ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 750000 | 10times Time:1542ms, Array's Length:6000000 |
| cutoff: | 800000 | 10times Time:1526ms, Array's Length:6000000 |
| cutoff: | 850000 | 10times Time:1503ms, Array's Length:6000000 |
| cutoff: | 900000 | 10times Time:1525ms, Array's Length:6000000 |
| cutoff: | 950000 | 10times Time:1523ms, Array's Length:6000000 |
| cutoff: | 1000000 | 10times Time:1518ms, Array's Length:6000000 |
| cutoff: | 1050000 | 10times Time:1516ms, Array's Length:6000000 |
| cutoff: | 1100000 | 10times Time:1507ms, Array's Length:6000000 |
| cutoff: | 1150000 | 10times Time:1543ms, Array's Length:6000000 |
| cutoff: | 1200000 | 10times Time:1504ms, Array's Length:6000000 |
| cutoff: | 1250000 | 10times Time:1498ms, Array's Length:6000000 |
| cutoff: | 1300000 | 10times Time:1510ms, Array's Length:6000000 |
| cutoff: | 1350000 | 10times Time:1503ms, Array's Length:6000000 |
| cutoff: | 1400000 | 10times Time:1531ms, Array's Length:6000000 |
| cutoff: | 1450000 | 10times Time:1498ms, Array's Length:6000000 |
| cutoff: | 1500000 | 10times Time:1531ms, Array's Length:6000000 |
| cutoff: | 1550000 | 10times Time:1739ms, Array's Length:6000000 |

| cutoff: | 1600000 | 10times Time:1735ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 1650000 | 10times Time:1747ms, Array's Length:6000000 |
| cutoff: | 1700000 | 10times Time:1740ms, Array's Length:6000000 |
| cutoff: | 1750000 | 10times Time:1737ms, Array's Length:6000000 |
| cutoff: | 1800000 | 10times Time:1741ms, Array's Length:6000000 |
| cutoff: | 1850000 | 10times Time:1739ms, Array's Length:6000000 |
| cutoff: | 1900000 | 10times Time:1741ms, Array's Length:6000000 |
| cutoff: | 1950000 | 10times Time:1760ms, Array's Length:6000000 |
| cutoff: | 2000000 | 10times Time:1733ms, Array's Length:6000000 |

| cutoff: | 50000 | 10times Time:2506ms, Array's Length:8000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:2094ms, Array's Length:8000000 |
| cutoff: | 150000 | 10times Time:2057ms, Array's Length:8000000 |
| cutoff: | 200000 | 10times Time:2060ms, Array's Length:8000000 |
| cutoff: | 250000 | 10times Time:2078ms, Array's Length:8000000 |
| cutoff: | 300000 | 10times Time:2067ms, Array's Length:8000000 |
| cutoff: | 350000 | 10times Time:2069ms, Array's Length:8000000 |
| cutoff: | 400000 | 10times Time:2094ms, Array's Length:8000000 |

| cutoff: | 450000 | 10times Time:2064ms, Array's Length:8000000 |
|---------|---------|---|
| cutoff: | 500000 | 10times Time:2062ms, Array's Length:8000000 |
| cutoff: | 550000 | 10times Time:2053ms, Array's Length:8000000 |
| cutoff: | 600000 | 10times Time:2078ms, Array's Length:8000000 |
| cutoff: | 650000 | 10times Time:2064ms, Array's Length:8000000 |
| cutoff: | 700000 | 10times Time:2063ms, Array's Length:8000000 |
| cutoff: | 750000 | 10times Time:2073ms, Array's Length:8000000 |
| cutoff: | 800000 | 10times Time:2048ms, Array's Length:8000000 |
| cutoff: | 850000 | 10times Time:2078ms, Array's Length:8000000 |
| cutoff: | 900000 | 10times Time:2062ms, Array's Length:8000000 |
| cutoff: | 950000 | 10times Time:2070ms, Array's Length:8000000 |
| cutoff: | 1000000 | 10times Time:2099ms, Array's Length:8000000 |
| cutoff: | 1050000 | 10times Time:1998ms, Array's Length:8000000 |
| cutoff: | 1100000 | 10times Time:2017ms, Array's Length:8000000 |
| cutoff: | 1150000 | 10times Time:2012ms, Array's Length:8000000 |
| cutoff: | 1200000 | 10times Time:2018ms, Array's Length:8000000 |
| cutoff: | 1250000 | 10times Time:2001ms, Array's Length:8000000 |
| cutoff: | 1300000 | 10times Time:2030ms, Array's Length:8000000 |

| cutoff: | 1350000 | 10times Time:2031ms, Array's Length:8000000 |
|---------|---------|---|
| cutoff: | 1400000 | 10times Time:2013ms, Array's Length:8000000 |
| cutoff: | 1450000 | 10times Time:2060ms, Array's Length:8000000 |
| cutoff: | 1500000 | 10times Time:2016ms, Array's Length:8000000 |
| cutoff: | 1550000 | 10times Time:2018ms, Array's Length:8000000 |
| cutoff: | 1600000 | 10times Time:2013ms, Array's Length:8000000 |
| cutoff: | 1650000 | 10times Time:2016ms, Array's Length:8000000 |
| cutoff: | 1700000 | 10times Time:2013ms, Array's Length:8000000 |
| cutoff: | 1750000 | 10times Time:2041ms, Array's Length:8000000 |
| cutoff: | 1800000 | 10times Time:2008ms, Array's Length:8000000 |
| cutoff: | 1850000 | 10times Time:1998ms, Array's Length:8000000 |
| cutoff: | 1900000 | 10times Time:2008ms, Array's Length:8000000 |
| cutoff: | 1950000 | 10times Time:2013ms, Array's Length:8000000 |
| cutoff: | 2000000 | 10times Time:2031ms, Array's Length:8000000 |

| cutoff: | 50000 | 10times Time:1356ms, Array's Length:2000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:554ms, Array's Length:2000000 |
| cutoff: | 150000 | 10times Time:538ms, Array's Length:2000000 |
| cutoff: | 200000 | 10times Time:559ms, Array's Length:2000000 |
| cutoff: | 250000 | 10times Time:556ms, Array's Length:2000000 |
| cutoff: | 300000 | 10times Time:537ms, Array's Length:2000000 |
| cutoff: | 350000 | 10times Time:533ms, Array's Length:2000000 |
| cutoff: | 400000 | 10times Time:536ms, Array's Length:2000000 |
| cutoff: | 450000 | 10times Time:534ms, Array's Length:2000000 |
| cutoff: | 500000 | 10times Time:537ms, Array's Length:2000000 |
| cutoff: | 550000 | 10times Time:583ms, Array's Length:2000000 |
| cutoff: | 600000 | 10times Time:577ms, Array's Length:2000000 |
| cutoff: | 650000 | 10times Time:582ms, Array's Length:2000000 |
| cutoff: | 700000 | 10times Time:579ms, Array's Length:2000000 |
| cutoff: | 750000 | 10times Time:579ms, Array's Length:2000000 |
| cutoff: | 800000 | 10times Time:579ms, Array's Length:2000000 |
| cutoff: | 850000 | 10times Time:580ms, Array's Length:2000000 |
| cutoff: | 900000 | 10times Time:576ms, Array's Length:2000000 |

| cutoff: | 950000 | 10times Time:581ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 1000000 | 10times Time:578ms, Array's Length:2000000 |
| cutoff: | 1050000 | 10times Time:812ms, Array's Length:2000000 |
| cutoff: | 1100000 | 10times Time:812ms, Array's Length:2000000 |
| cutoff: | 1150000 | 10times Time:809ms, Array's Length:2000000 |
| cutoff: | 1200000 | 10times Time:809ms, Array's Length:2000000 |
| cutoff: | 1250000 | 10times Time:811ms, Array's Length:2000000 |
| cutoff: | 1300000 | 10times Time:811ms, Array's Length:2000000 |
| cutoff: | 1350000 | 10times Time:811ms, Array's Length:2000000 |
| cutoff: | 1400000 | 10times Time:812ms, Array's Length:2000000 |
| cutoff: | 1450000 | 10times Time:811ms, Array's Length:2000000 |
| cutoff: | 1500000 | 10times Time:815ms, Array's Length:2000000 |
| cutoff: | 1550000 | 10times Time:813ms, Array's Length:2000000 |
| cutoff: | 1600000 | 10times Time:808ms, Array's Length:2000000 |
| cutoff: | 1650000 | 10times Time:806ms, Array's Length:2000000 |
| cutoff: | 1700000 | 10times Time:812ms, Array's Length:2000000 |
| cutoff: | 1750000 | 10times Time:807ms, Array's Length:2000000 |
| cutoff: | 1800000 | 10times Time:810ms, Array's Length:2000000 |

| cutoff: | 1850000 | 10times Time:810ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 1900000 | 10times Time:812ms, Array's Length:2000000 |
| cutoff: | 1950000 | 10times Time:811ms, Array's Length:2000000 |
| cutoff: | 2000000 | 10times Time:805ms, Array's Length:2000000 |

| cutoff: 50000 | 10times Time:1494ms, Array's Length:4000000 |
|----------------|---|
| cutoff: 100000 | 10times Time:1161ms, Array's Length:4000000 |
| cutoff: 150000 | 10times Time:1096ms, Array's Length:4000000 |
| cutoff: 200000 | 10times Time:1067ms, Array's Length:4000000 |
| cutoff: 250000 | 10times Time:996ms, Array's Length:4000000 |
| cutoff: 300000 | 10times Time:998ms, Array's Length:4000000 |
| cutoff: 350000 | 10times Time:998ms, Array's Length:4000000 |
| cutoff: 400000 | 10times Time:1005ms, Array's Length:4000000 |
| cutoff: 450000 | 10times Time:989ms, Array's Length:4000000 |
| cutoff: 500000 | 10times Time:997ms, Array's Length:4000000 |
| cutoff: 550000 | 10times Time:984ms, Array's Length:4000000 |
| cutoff: 600000 | 10times Time:975ms, Array's Length:4000000 |
| cutoff: 650000 | 10times Time:987ms, Array's Length:4000000 |

| cutoff: | 700000 | 10times Time:980ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 750000 | 10times Time:967ms, Array's Length:4000000 |
| cutoff: | 800000 | 10times Time:961ms, Array's Length:4000000 |
| cutoff: | 850000 | 10times Time:968ms, Array's Length:4000000 |
| cutoff: | 900000 | 10times Time:981ms, Array's Length:4000000 |
| cutoff: | 950000 | 10times Time:972ms, Array's Length:4000000 |
| cutoff: | 1000000 | 10times Time:975ms, Array's Length:4000000 |
| cutoff: | 1050000 | 10times Time:1133ms, Array's Length:4000000 |
| cutoff: | 1100000 | 10times Time:1143ms, Array's Length:4000000 |
| cutoff: | 1150000 | 10times Time:1146ms, Array's Length:4000000 |
| cutoff: | 1200000 | 10times Time:1140ms, Array's Length:4000000 |
| cutoff: | 1250000 | 10times Time:1148ms, Array's Length:4000000 |
| cutoff: | 1300000 | 10times Time:1146ms, Array's Length:4000000 |
| cutoff: | 1350000 | 10times Time:1140ms, Array's Length:4000000 |
| cutoff: | 1400000 | 10times Time:1145ms, Array's Length:4000000 |
| cutoff: | 1450000 | 10times Time:1139ms, Array's Length:4000000 |
| cutoff: | 1500000 | 10times Time:1139ms, Array's Length:4000000 |
| cutoff: | 1550000 | 10times Time:1140ms, Array's Length:4000000 |

| cutoff: | 1600000 | 10times Time:1141ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 1650000 | 10times Time:1137ms, Array's Length:4000000 |
| cutoff: | 1700000 | 10times Time:1143ms, Array's Length:4000000 |
| cutoff: | 1750000 | 10times Time:1140ms, Array's Length:4000000 |
| cutoff: | 1800000 | 10times Time:1146ms, Array's Length:4000000 |
| cutoff: | 1850000 | 10times Time:1137ms, Array's Length:4000000 |
| cutoff: | 1900000 | 10times Time:1139ms, Array's Length:4000000 |
| cutoff: | 1950000 | 10times Time:1140ms, Array's Length:4000000 |
| cutoff: | 2000000 | 10times Time:1140ms, Array's Length:4000000 |

| cutoff: | 50000 | 10times Time:1581ms, Array's Length:6000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:1585ms, Array's Length:6000000 |
| cutoff: | 150000 | 10times Time:1581ms, Array's Length:6000000 |
| cutoff: | 200000 | 10times Time:1692ms, Array's Length:6000000 |
| cutoff: | 250000 | 10times Time:1585ms, Array's Length:6000000 |
| cutoff: | 300000 | 10times Time:1624ms, Array's Length:6000000 |
| cutoff: | 350000 | 10times Time:1521ms, Array's Length:6000000 |
| cutoff: | 400000 | 10times Time:1542ms, Array's Length:6000000 |

| cutoff: | 450000 | 10times Time:1515ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 500000 | 10times Time:1625ms, Array's Length:6000000 |
| cutoff: | 550000 | 10times Time:1593ms, Array's Length:6000000 |
| cutoff: | 600000 | 10times Time:1700ms, Array's Length:6000000 |
| cutoff: | 650000 | 10times Time:1587ms, Array's Length:6000000 |
| cutoff: | 700000 | 10times Time:1641ms, Array's Length:6000000 |
| cutoff: | 750000 | 10times Time:1578ms, Array's Length:6000000 |
| cutoff: | 800000 | 10times Time:1544ms, Array's Length:6000000 |
| cutoff: | 850000 | 10times Time:1646ms, Array's Length:6000000 |
| cutoff: | 900000 | 10times Time:1615ms, Array's Length:6000000 |
| cutoff: | 950000 | 10times Time:1607ms, Array's Length:6000000 |
| cutoff: | 1000000 | 10times Time:1662ms, Array's Length:6000000 |
| cutoff: | 1050000 | 10times Time:1742ms, Array's Length:6000000 |
| cutoff: | 1100000 | 10times Time:1535ms, Array's Length:6000000 |
| cutoff: | 1150000 | 10times Time:1621ms, Array's Length:6000000 |
| cutoff: | 1200000 | 10times Time:1765ms, Array's Length:6000000 |
| cutoff: | 1250000 | 10times Time:1614ms, Array's Length:6000000 |
| cutoff: | 1300000 | 10times Time:1570ms, Array's Length:6000000 |

| cutoff: | 1350000 | 10times Time:1666ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 1400000 | 10times Time:1757ms, Array's Length:6000000 |
| cutoff: | 1450000 | 10times Time:1574ms, Array's Length:6000000 |
| cutoff: | 1500000 | 10times Time:1524ms, Array's Length:6000000 |
| cutoff: | 1550000 | 10times Time:1892ms, Array's Length:6000000 |
| cutoff: | 1600000 | 10times Time:1964ms, Array's Length:6000000 |
| cutoff: | 1650000 | 10times Time:1889ms, Array's Length:6000000 |
| cutoff: | 1700000 | 10times Time:1892ms, Array's Length:6000000 |
| cutoff: | 1750000 | 10times Time:1894ms, Array's Length:6000000 |
| cutoff: | 1800000 | 10times Time:2012ms, Array's Length:6000000 |
| cutoff: | 1850000 | 10times Time:1828ms, Array's Length:6000000 |
| cutoff: | 1900000 | 10times Time:2009ms, Array's Length:6000000 |
| cutoff: | 1950000 | 10times Time:1981ms, Array's Length:6000000 |
| cutoff: | 2000000 | 10times Time:1845ms, Array's Length:6000000 |

cutoff: 50000 10times Time:2812ms, Array's Length:8000000

cutoff: 100000 10times Time:2308ms, Array's Length:8000000

cutoff: 150000 10times Time:2226ms, Array's Length:8000000

| cutoff: | 200000 | 10times Time:2235ms, Array's Length:8000000 |
|---------|---------|---|
| cutoff: | 250000 | 10times Time:2240ms, Array's Length:8000000 |
| cutoff: | 300000 | 10times Time:2166ms, Array's Length:8000000 |
| cutoff: | 350000 | 10times Time:2132ms, Array's Length:8000000 |
| cutoff: | 400000 | 10times Time:2140ms, Array's Length:8000000 |
| cutoff: | 450000 | 10times Time:2146ms, Array's Length:8000000 |
| cutoff: | 500000 | 10times Time:2118ms, Array's Length:8000000 |
| cutoff: | 550000 | 10times Time:2075ms, Array's Length:8000000 |
| cutoff: | 600000 | 10times Time:2110ms, Array's Length:8000000 |
| cutoff: | 650000 | 10times Time:2105ms, Array's Length:8000000 |
| cutoff: | 700000 | 10times Time:2124ms, Array's Length:8000000 |
| cutoff: | 750000 | 10times Time:2103ms, Array's Length:8000000 |
| cutoff: | 800000 | 10times Time:2083ms, Array's Length:8000000 |
| cutoff: | 850000 | 10times Time:2127ms, Array's Length:8000000 |
| cutoff: | 900000 | 10times Time:2112ms, Array's Length:8000000 |
| cutoff: | 950000 | 10times Time:2227ms, Array's Length:8000000 |
| cutoff: | 1000000 | 10times Time:2384ms, Array's Length:8000000 |
| cutoff: | 1050000 | 10times Time:2229ms, Array's Length:8000000 |

| cutoff: | 1100000 | 10times Time:2091ms, Array's Length:8000000 |
|---------|---------|---|
| cutoff: | 1150000 | 10times Time:2249ms, Array's Length:8000000 |
| cutoff: | 1200000 | 10times Time:2315ms, Array's Length:8000000 |
| cutoff: | 1250000 | 10times Time:2058ms, Array's Length:8000000 |
| cutoff: | 1300000 | 10times Time:2371ms, Array's Length:8000000 |
| cutoff: | 1350000 | 10times Time:2499ms, Array's Length:8000000 |
| cutoff: | 1400000 | 10times Time:2056ms, Array's Length:8000000 |
| cutoff: | 1450000 | 10times Time:2329ms, Array's Length:8000000 |
| cutoff: | 1500000 | 10times Time:2192ms, Array's Length:8000000 |
| cutoff: | 1550000 | 10times Time:2036ms, Array's Length:8000000 |
| cutoff: | 1600000 | 10times Time:2389ms, Array's Length:8000000 |
| cutoff: | 1650000 | 10times Time:2220ms, Array's Length:8000000 |
| cutoff: | 1700000 | 10times Time:2067ms, Array's Length:8000000 |
| cutoff: | 1750000 | 10times Time:2128ms, Array's Length:8000000 |
| cutoff: | 1800000 | 10times Time:2319ms, Array's Length:8000000 |
| cutoff: | 1850000 | 10times Time:2119ms, Array's Length:8000000 |
| cutoff: | 1900000 | 10times Time:2198ms, Array's Length:8000000 |
| cutoff: | 1950000 | 10times Time:2063ms, Array's Length:8000000 |

cutoff: 2000000 10times Time:2342ms, Array's Length:8000000

Degree of parallelism: 32

| cutoff: | 50000 | 10times Time:1340ms, Array's Length:2000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:754ms, Array's Length:2000000 |
| cutoff: | 150000 | 10times Time:521ms, Array's Length:2000000 |
| cutoff: | 200000 | 10times Time:527ms, Array's Length:2000000 |
| cutoff: | 250000 | 10times Time:524ms, Array's Length:2000000 |
| cutoff: | 300000 | 10times Time:540ms, Array's Length:2000000 |
| cutoff: | 350000 | 10times Time:529ms, Array's Length:2000000 |
| cutoff: | 400000 | 10times Time:525ms, Array's Length:2000000 |
| cutoff: | 450000 | 10times Time:532ms, Array's Length:2000000 |
| cutoff: | 500000 | 10times Time:535ms, Array's Length:2000000 |
| cutoff: | 550000 | 10times Time:588ms, Array's Length:2000000 |
| cutoff: | 600000 | 10times Time:581ms, Array's Length:2000000 |
| cutoff: | 650000 | 10times Time:584ms, Array's Length:2000000 |
| cutoff: | 700000 | 10times Time:581ms, Array's Length:2000000 |

| cutoff: | 750000 | 10times Time:584ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 800000 | 10times Time:579ms, Array's Length:2000000 |
| cutoff: | 850000 | 10times Time:585ms, Array's Length:2000000 |
| cutoff: | 900000 | 10times Time:580ms, Array's Length:2000000 |
| cutoff: | 950000 | 10times Time:578ms, Array's Length:2000000 |
| cutoff: | 1000000 | 10times Time:584ms, Array's Length:2000000 |
| cutoff: | 1050000 | 10times Time:819ms, Array's Length:2000000 |
| cutoff: | 1100000 | 10times Time:817ms, Array's Length:2000000 |
| cutoff: | 1150000 | 10times Time:816ms, Array's Length:2000000 |
| cutoff: | 1200000 | 10times Time:814ms, Array's Length:2000000 |
| cutoff: | 1250000 | 10times Time:808ms, Array's Length:2000000 |
| cutoff: | 1300000 | 10times Time:816ms, Array's Length:2000000 |
| cutoff: | 1350000 | 10times Time:815ms, Array's Length:2000000 |
| cutoff: | 1400000 | 10times Time:813ms, Array's Length:2000000 |
| cutoff: | 1450000 | 10times Time:816ms, Array's Length:2000000 |
| cutoff: | 1500000 | 10times Time:816ms, Array's Length:2000000 |
| cutoff: | 1550000 | 10times Time:815ms, Array's Length:2000000 |
| cutoff: | 1600000 | 10times Time:820ms, Array's Length:2000000 |

| cutoff: | 1650000 | 10times Time:812ms, Array's Length:2000000 |
|---------|---------|--|
| cutoff: | 1700000 | 10times Time:816ms, Array's Length:2000000 |
| cutoff: | 1750000 | 10times Time:819ms, Array's Length:2000000 |
| cutoff: | 1800000 | 10times Time:814ms, Array's Length:2000000 |
| cutoff: | 1850000 | 10times Time:817ms, Array's Length:2000000 |
| cutoff: | 1900000 | 10times Time:819ms, Array's Length:2000000 |
| cutoff: | 1950000 | 10times Time:814ms, Array's Length:2000000 |
| cutoff: | 2000000 | 10times Time:814ms, Array's Length:2000000 |

| cutoff: | 50000 | 10times Time:1348ms, Array's Length:4000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:1039ms, Array's Length:4000000 |
| cutoff: | 150000 | 10times Time:1010ms, Array's Length:4000000 |
| cutoff: | 200000 | 10times Time:1006ms, Array's Length:4000000 |
| cutoff: | 250000 | 10times Time:1004ms, Array's Length:4000000 |
| cutoff: | 300000 | 10times Time:1003ms, Array's Length:4000000 |
| cutoff: | 350000 | 10times Time:1035ms, Array's Length:4000000 |
| cutoff: | 400000 | 10times Time:1007ms, Array's Length:4000000 |
| cutoff: | 450000 | 10times Time:1004ms, Array's Length:4000000 |

| cutoff: | 500000 | 10times Time:1000ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 550000 | 10times Time:995ms, Array's Length:4000000 |
| cutoff: | 600000 | 10times Time:976ms, Array's Length:4000000 |
| cutoff: | 650000 | 10times Time:986ms, Array's Length:4000000 |
| cutoff: | 700000 | 10times Time:972ms, Array's Length:4000000 |
| cutoff: | 750000 | 10times Time:976ms, Array's Length:4000000 |
| cutoff: | 800000 | 10times Time:994ms, Array's Length:4000000 |
| cutoff: | 850000 | 10times Time:1025ms, Array's Length:4000000 |
| cutoff: | 900000 | 10times Time:978ms, Array's Length:4000000 |
| cutoff: | 950000 | 10times Time:986ms, Array's Length:4000000 |
| cutoff: | 1000000 | 10times Time:983ms, Array's Length:4000000 |
| cutoff: | 1050000 | 10times Time:1158ms, Array's Length:4000000 |
| cutoff: | 1100000 | 10times Time:1151ms, Array's Length:4000000 |
| cutoff: | 1150000 | 10times Time:1150ms, Array's Length:4000000 |
| cutoff: | 1200000 | 10times Time:1155ms, Array's Length:4000000 |
| cutoff: | 1250000 | 10times Time:1153ms, Array's Length:4000000 |
| cutoff: | 1300000 | 10times Time:1144ms, Array's Length:4000000 |
| cutoff: | 1350000 | 10times Time:1147ms, Array's Length:4000000 |

| cutoff: | 1400000 | 10times Time:1152ms, Array's Length:4000000 |
|---------|---------|---|
| cutoff: | 1450000 | 10times Time:1152ms, Array's Length:4000000 |
| cutoff: | 1500000 | 10times Time:1147ms, Array's Length:4000000 |
| cutoff: | 1550000 | 10times Time:1151ms, Array's Length:4000000 |
| cutoff: | 1600000 | 10times Time:1149ms, Array's Length:4000000 |
| cutoff: | 1650000 | 10times Time:1150ms, Array's Length:4000000 |
| cutoff: | 1700000 | 10times Time:1151ms, Array's Length:4000000 |
| cutoff: | 1750000 | 10times Time:1144ms, Array's Length:4000000 |
| cutoff: | 1800000 | 10times Time:1147ms, Array's Length:4000000 |
| cutoff: | 1850000 | 10times Time:1147ms, Array's Length:4000000 |
| cutoff: | 1900000 | 10times Time:1152ms, Array's Length:4000000 |
| cutoff: | 1950000 | 10times Time:1143ms, Array's Length:4000000 |
| cutoff: | 2000000 | 10times Time:1149ms, Array's Length:4000000 |

cutoff: 50000

cutoff: 200000

10times Time:1752ms, Array's Length:6000000 cutoff: 100000 10times Time:1540ms, Array's Length:6000000 cutoff: 150000 10times Time:1701ms, Array's Length:6000000

10times Time:1536ms, Array's Length:6000000

| cutoff: | 250000 | 10times Time:1519ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 300000 | 10times Time:1518ms, Array's Length:6000000 |
| cutoff: | 350000 | 10times Time:1525ms, Array's Length:6000000 |
| cutoff: | 400000 | 10times Time:1526ms, Array's Length:6000000 |
| cutoff: | 450000 | 10times Time:1548ms, Array's Length:6000000 |
| cutoff: | 500000 | 10times Time:1508ms, Array's Length:6000000 |
| cutoff: | 550000 | 10times Time:1500ms, Array's Length:6000000 |
| cutoff: | 600000 | 10times Time:1518ms, Array's Length:6000000 |
| cutoff: | 650000 | 10times Time:1551ms, Array's Length:6000000 |
| cutoff: | 700000 | 10times Time:1523ms, Array's Length:6000000 |
| cutoff: | 750000 | 10times Time:1495ms, Array's Length:6000000 |
| cutoff: | 800000 | 10times Time:1482ms, Array's Length:6000000 |
| cutoff: | 850000 | 10times Time:1475ms, Array's Length:6000000 |
| cutoff: | 900000 | 10times Time:1477ms, Array's Length:6000000 |
| cutoff: | 950000 | 10times Time:1481ms, Array's Length:6000000 |
| cutoff: | 1000000 | 10times Time:1465ms, Array's Length:6000000 |
| cutoff: | 1050000 | 10times Time:1473ms, Array's Length:6000000 |
| cutoff: | 1100000 | 10times Time:1469ms, Array's Length:6000000 |

| cutoff: | 1150000 | 10times Time:1487ms, Array's Length:6000000 |
|---------|---------|---|
| cutoff: | 1200000 | 10times Time:1486ms, Array's Length:6000000 |
| cutoff: | 1250000 | 10times Time:1502ms, Array's Length:6000000 |
| cutoff: | 1300000 | 10times Time:1507ms, Array's Length:6000000 |
| cutoff: | 1350000 | 10times Time:1483ms, Array's Length:6000000 |
| cutoff: | 1400000 | 10times Time:1486ms, Array's Length:6000000 |
| cutoff: | 1450000 | 10times Time:1477ms, Array's Length:6000000 |
| cutoff: | 1500000 | 10times Time:1471ms, Array's Length:6000000 |
| cutoff: | 1550000 | 10times Time:1749ms, Array's Length:6000000 |
| cutoff: | 1600000 | 10times Time:1749ms, Array's Length:6000000 |
| cutoff: | 1650000 | 10times Time:1748ms, Array's Length:6000000 |
| cutoff: | 1700000 | 10times Time:1741ms, Array's Length:6000000 |
| cutoff: | 1750000 | 10times Time:1751ms, Array's Length:6000000 |
| cutoff: | 1800000 | 10times Time:1748ms, Array's Length:6000000 |
| cutoff: | 1850000 | 10times Time:1749ms, Array's Length:6000000 |
| cutoff: | 1900000 | 10times Time:1748ms, Array's Length:6000000 |
| cutoff: | 1950000 | 10times Time:1748ms, Array's Length:6000000 |
| cutoff: | 2000000 | 10times Time:1747ms, Array's Length:6000000 |

| cutoff: | 50000 | 10times Time:2542ms, Array's Length:8000000 |
|---------|--------|---|
| cutoff: | 100000 | 10times Time:2166ms, Array's Length:8000000 |
| cutoff: | 150000 | 10times Time:2055ms, Array's Length:8000000 |
| cutoff: | 200000 | 10times Time:2023ms, Array's Length:8000000 |
| cutoff: | 250000 | 10times Time:2036ms, Array's Length:8000000 |
| cutoff: | 300000 | 10times Time:1999ms, Array's Length:8000000 |
| cutoff: | 350000 | 10times Time:2030ms, Array's Length:8000000 |
| cutoff: | 400000 | 10times Time:2016ms, Array's Length:8000000 |
| cutoff: | 450000 | 10times Time:2019ms, Array's Length:8000000 |
| cutoff: | 500000 | 10times Time:2012ms, Array's Length:8000000 |
| cutoff: | 550000 | 10times Time:2019ms, Array's Length:8000000 |
| cutoff: | 600000 | 10times Time:2027ms, Array's Length:8000000 |
| cutoff: | 650000 | 10times Time:2026ms, Array's Length:8000000 |
| cutoff: | 700000 | 10times Time:2018ms, Array's Length:8000000 |
| cutoff: | 750000 | 10times Time:2026ms, Array's Length:8000000 |
| cutoff: | 800000 | 10times Time:2011ms, Array's Length:8000000 |
| cutoff: | 850000 | 10times Time:1985ms, Array's Length:8000000 |

| cutoff: | 900000 | 10times Time:2034ms, Array's Length:8000000 |
|---------|---------|---|
| cutoff: | 950000 | 10times Time:2020ms, Array's Length:8000000 |
| cutoff: | 1000000 | 10times Time:1998ms, Array's Length:8000000 |
| cutoff: | 1050000 | 10times Time:1962ms, Array's Length:8000000 |
| cutoff: | 1100000 | 10times Time:1985ms, Array's Length:8000000 |
| cutoff: | 1150000 | 10times Time:1959ms, Array's Length:8000000 |
| cutoff: | 1200000 | 10times Time:1955ms, Array's Length:8000000 |
| cutoff: | 1250000 | 10times Time:1976ms, Array's Length:8000000 |
| cutoff: | 1300000 | 10times Time:2040ms, Array's Length:8000000 |
| cutoff: | 1350000 | 10times Time:2043ms, Array's Length:8000000 |
| cutoff: | 1400000 | 10times Time:2018ms, Array's Length:8000000 |
| cutoff: | 1450000 | 10times Time:2021ms, Array's Length:8000000 |
| cutoff: | 1500000 | 10times Time:2047ms, Array's Length:8000000 |
| cutoff: | 1550000 | 10times Time:1973ms, Array's Length:8000000 |
| cutoff: | 1600000 | 10times Time:1964ms, Array's Length:8000000 |
| cutoff: | 1650000 | 10times Time:1967ms, Array's Length:8000000 |
| cutoff: | 1700000 | 10times Time:1973ms, Array's Length:8000000 |
| cutoff: | 1750000 | 10times Time:1977ms, Array's Length:8000000 |

| cutoff: | 1800000 | 10times Time:1985ms, Array's Length:8000000 |
|---------|---------|---|
| cutoff: | 1850000 | 10times Time:1969ms, Array's Length:8000000 |
| cutoff: | 1900000 | 10times Time:1973ms, Array's Length:8000000 |
| cutoff: | 1950000 | 10times Time:2160ms, Array's Length:8000000 |
| cutoff: | 2000000 | 10times Time:1981ms, Array's Length:8000000 |