**Parallel Sorting Output**

Size of Array : 200000

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Degree of parallelism : 2

cutoff：20000 10times Time:502ms

cutoff：40000 10times Time:339ms

cutoff：60000 10times Time:276ms

cutoff：80000 10times Time:140ms

cutoff：100000 10times Time:117ms

cutoff：120000 10times Time:140ms

cutoff：140000 10times Time:137ms

cutoff：160000 10times Time:137ms

cutoff：180000 10times Time:151ms

cutoff：200000 10times Time:137ms

Degree of parallelism : 4

cutoff：20000 10times Time:157ms

cutoff：40000 10times Time:101ms

cutoff：60000 10times Time:84ms

cutoff：80000 10times Time:93ms

cutoff：100000 10times Time:86ms

cutoff：120000 10times Time:110ms

cutoff：140000 10times Time:114ms

cutoff：160000 10times Time:113ms

cutoff：180000 10times Time:121ms

cutoff：200000 10times Time:111ms

Degree of parallelism : 8

cutoff：20000 10times Time:89ms

cutoff：40000 10times Time:97ms

cutoff：60000 10times Time:83ms

cutoff：80000 10times Time:94ms

cutoff：100000 10times Time:83ms

cutoff：120000 10times Time:111ms

cutoff：140000 10times Time:111ms

cutoff：160000 10times Time:110ms

cutoff：180000 10times Time:111ms

cutoff：200000 10times Time:120ms

Degree of parallelism : 16

cutoff：20000 10times Time:85ms

cutoff：40000 10times Time:99ms

cutoff：60000 10times Time:86ms

cutoff：80000 10times Time:87ms

cutoff：100000 10times Time:92ms

cutoff：120000 10times Time:111ms

cutoff：140000 10times Time:113ms

cutoff：160000 10times Time:111ms

cutoff：180000 10times Time:112ms

cutoff：200000 10times Time:120ms

Degree of parallelism : 32

cutoff：20000 10times Time:98ms

cutoff：40000 10times Time:96ms

cutoff：60000 10times Time:84ms

cutoff：80000 10times Time:85ms

cutoff：100000 10times Time:92ms

cutoff：120000 10times Time:111ms

cutoff：140000 10times Time:111ms

cutoff：160000 10times Time:112ms

cutoff：180000 10times Time:111ms

cutoff：200000 10times Time:122ms

Degree of parallelism : 64

cutoff：20000 10times Time:89ms

cutoff：40000 10times Time:93ms

cutoff：60000 10times Time:87ms

cutoff：80000 10times Time:91ms

cutoff：100000 10times Time:89ms

cutoff：120000 10times Time:111ms

cutoff：140000 10times Time:112ms

cutoff：160000 10times Time:112ms

cutoff：180000 10times Time:111ms

cutoff：200000 10times Time:114ms

Size of Array : 400000

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Degree of parallelism : 2

cutoff：40000 10times Time:228ms

cutoff：80000 10times Time:236ms

cutoff：120000 10times Time:178ms

cutoff：160000 10times Time:173ms

cutoff：200000 10times Time:174ms

cutoff：240000 10times Time:235ms

cutoff：280000 10times Time:235ms

cutoff：320000 10times Time:232ms

cutoff：360000 10times Time:233ms

cutoff：400000 10times Time:234ms

Degree of parallelism : 4

cutoff：40000 10times Time:182ms

cutoff：80000 10times Time:194ms

cutoff：120000 10times Time:157ms

cutoff：160000 10times Time:154ms

cutoff：200000 10times Time:154ms

cutoff：240000 10times Time:217ms

cutoff：280000 10times Time:219ms

cutoff：320000 10times Time:220ms

cutoff：360000 10times Time:220ms

cutoff：400000 10times Time:218ms

Degree of parallelism : 8

cutoff：40000 10times Time:218ms

cutoff：80000 10times Time:162ms

cutoff：120000 10times Time:152ms

cutoff：160000 10times Time:154ms

cutoff：200000 10times Time:150ms

cutoff：240000 10times Time:219ms

cutoff：280000 10times Time:218ms

cutoff：320000 10times Time:215ms

cutoff：360000 10times Time:222ms

cutoff：400000 10times Time:218ms

Degree of parallelism : 16

cutoff：40000 10times Time:152ms

cutoff：80000 10times Time:156ms

cutoff：120000 10times Time:153ms

cutoff：160000 10times Time:154ms

cutoff：200000 10times Time:153ms

cutoff：240000 10times Time:219ms

cutoff：280000 10times Time:218ms

cutoff：320000 10times Time:217ms

cutoff：360000 10times Time:218ms

cutoff：400000 10times Time:217ms

Degree of parallelism : 32

cutoff：40000 10times Time:155ms

cutoff：80000 10times Time:156ms

cutoff：120000 10times Time:152ms

cutoff：160000 10times Time:153ms

cutoff：200000 10times Time:151ms

cutoff：240000 10times Time:220ms

cutoff：280000 10times Time:218ms

cutoff：320000 10times Time:220ms

cutoff：360000 10times Time:218ms

cutoff：400000 10times Time:221ms

Degree of parallelism : 64

cutoff：40000 10times Time:150ms

cutoff：80000 10times Time:156ms

cutoff：120000 10times Time:152ms

cutoff：160000 10times Time:168ms

cutoff：200000 10times Time:151ms

cutoff：240000 10times Time:219ms

cutoff：280000 10times Time:219ms

cutoff：320000 10times Time:221ms

cutoff：360000 10times Time:217ms

cutoff：400000 10times Time:221ms

Size of Array : 800000

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Degree of parallelism : 2

cutoff：80000 10times Time:326ms

cutoff：160000 10times Time:328ms

cutoff：240000 10times Time:320ms

cutoff：320000 10times Time:317ms

cutoff：400000 10times Time:318ms

cutoff：480000 10times Time:470ms

cutoff：560000 10times Time:453ms

cutoff：640000 10times Time:457ms

cutoff：720000 10times Time:455ms

cutoff：800000 10times Time:456ms

Degree of parallelism : 4

cutoff：80000 10times Time:326ms

cutoff：160000 10times Time:322ms

cutoff：240000 10times Time:312ms

cutoff：320000 10times Time:313ms

cutoff：400000 10times Time:311ms

cutoff：480000 10times Time:457ms

cutoff：560000 10times Time:457ms

cutoff：640000 10times Time:454ms

cutoff：720000 10times Time:450ms

cutoff：800000 10times Time:453ms

Degree of parallelism : 8

cutoff：80000 10times Time:318ms

cutoff：160000 10times Time:321ms

cutoff：240000 10times Time:313ms

cutoff：320000 10times Time:313ms

cutoff：400000 10times Time:313ms

cutoff：480000 10times Time:450ms

cutoff：560000 10times Time:452ms

cutoff：640000 10times Time:453ms

cutoff：720000 10times Time:455ms

cutoff：800000 10times Time:452ms

Degree of parallelism : 16

cutoff：80000 10times Time:317ms

cutoff：160000 10times Time:325ms

cutoff：240000 10times Time:318ms

cutoff：320000 10times Time:316ms

cutoff：400000 10times Time:313ms

cutoff：480000 10times Time:461ms

cutoff：560000 10times Time:453ms

cutoff：640000 10times Time:454ms

cutoff：720000 10times Time:449ms

cutoff：800000 10times Time:452ms

Degree of parallelism : 32

cutoff：80000 10times Time:344ms

cutoff：160000 10times Time:340ms

cutoff：240000 10times Time:380ms

cutoff：320000 10times Time:379ms

cutoff：400000 10times Time:416ms

cutoff：480000 10times Time:639ms

cutoff：560000 10times Time:525ms

cutoff：640000 10times Time:493ms

cutoff：720000 10times Time:459ms

cutoff：800000 10times Time:457ms

Degree of parallelism : 64

cutoff：80000 10times Time:339ms

cutoff：160000 10times Time:322ms

cutoff：240000 10times Time:315ms

cutoff：320000 10times Time:319ms

cutoff：400000 10times Time:325ms

cutoff：480000 10times Time:452ms

cutoff：560000 10times Time:454ms

cutoff：640000 10times Time:452ms

cutoff：720000 10times Time:456ms

cutoff：800000 10times Time:452ms

Size of Array : 1600000

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Degree of parallelism : 2

cutoff：160000 10times Time:671ms

cutoff：320000 10times Time:672ms

cutoff：480000 10times Time:646ms

cutoff：640000 10times Time:649ms

cutoff：800000 10times Time:647ms

cutoff：960000 10times Time:946ms

cutoff：1120000 10times Time:946ms

cutoff：1280000 10times Time:945ms

cutoff：1440000 10times Time:942ms

cutoff：1600000 10times Time:948ms

Degree of parallelism : 4

cutoff：160000 10times Time:687ms

cutoff：320000 10times Time:670ms

cutoff：480000 10times Time:647ms

cutoff：640000 10times Time:649ms

cutoff：800000 10times Time:649ms

cutoff：960000 10times Time:944ms

cutoff：1120000 10times Time:977ms

cutoff：1280000 10times Time:939ms

cutoff：1440000 10times Time:943ms

cutoff：1600000 10times Time:938ms

Degree of parallelism : 8

cutoff：160000 10times Time:627ms

cutoff：320000 10times Time:681ms

cutoff：480000 10times Time:651ms

cutoff：640000 10times Time:645ms

cutoff：800000 10times Time:646ms

cutoff：960000 10times Time:941ms

cutoff：1120000 10times Time:939ms

cutoff：1280000 10times Time:947ms

cutoff：1440000 10times Time:948ms

cutoff：1600000 10times Time:949ms

Degree of parallelism : 16

cutoff：160000 10times Time:653ms

cutoff：320000 10times Time:663ms

cutoff：480000 10times Time:656ms

cutoff：640000 10times Time:648ms

cutoff：800000 10times Time:652ms

cutoff：960000 10times Time:950ms

cutoff：1120000 10times Time:950ms

cutoff：1280000 10times Time:943ms

cutoff：1440000 10times Time:957ms

cutoff：1600000 10times Time:945ms

Degree of parallelism : 32

cutoff：160000 10times Time:666ms

cutoff：320000 10times Time:666ms

cutoff：480000 10times Time:645ms

cutoff：640000 10times Time:646ms

cutoff：800000 10times Time:645ms

cutoff：960000 10times Time:943ms

cutoff：1120000 10times Time:964ms

cutoff：1280000 10times Time:941ms

cutoff：1440000 10times Time:944ms

cutoff：1600000 10times Time:946ms

Degree of parallelism : 64

cutoff：160000 10times Time:653ms

cutoff：320000 10times Time:662ms

cutoff：480000 10times Time:644ms

cutoff：640000 10times Time:648ms

cutoff：800000 10times Time:649ms

cutoff：960000 10times Time:941ms

cutoff：1120000 10times Time:945ms

cutoff：1280000 10times Time:946ms

cutoff：1440000 10times Time:947ms

cutoff：1600000 10times Time:947ms

Size of Array : 3200000

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Degree of parallelism : 2

cutoff：320000 10times Time:1379ms

cutoff：640000 10times Time:1410ms

cutoff：960000 10times Time:1375ms

cutoff：1280000 10times Time:1358ms

cutoff：1600000 10times Time:1356ms

cutoff：1920000 10times Time:1952ms

cutoff：2240000 10times Time:1961ms

cutoff：2560000 10times Time:1957ms

cutoff：2880000 10times Time:1951ms

cutoff：3200000 10times Time:1956ms

Degree of parallelism : 4

cutoff：320000 10times Time:1281ms

cutoff：640000 10times Time:1355ms

cutoff：960000 10times Time:1321ms

cutoff：1280000 10times Time:1321ms

cutoff：1600000 10times Time:1317ms

cutoff：1920000 10times Time:1950ms

cutoff：2240000 10times Time:1944ms

cutoff：2560000 10times Time:1956ms

cutoff：2880000 10times Time:1955ms

cutoff：3200000 10times Time:1959ms

Degree of parallelism : 8

cutoff：320000 10times Time:1275ms

cutoff：640000 10times Time:1349ms

cutoff：960000 10times Time:1359ms

cutoff：1280000 10times Time:1318ms

cutoff：1600000 10times Time:1317ms

cutoff：1920000 10times Time:1947ms

cutoff：2240000 10times Time:1950ms

cutoff：2560000 10times Time:1959ms

cutoff：2880000 10times Time:1954ms

cutoff：3200000 10times Time:1957ms

Degree of parallelism : 16

cutoff：320000 10times Time:1299ms

cutoff：640000 10times Time:1736ms

cutoff：960000 10times Time:1884ms

cutoff：1280000 10times Time:2062ms

cutoff：1600000 10times Time:1817ms

cutoff：1920000 10times Time:1964ms

cutoff：2240000 10times Time:1958ms

cutoff：2560000 10times Time:1964ms

cutoff：2880000 10times Time:1948ms

cutoff：3200000 10times Time:1960ms

Degree of parallelism : 32

cutoff：320000 10times Time:1474ms

cutoff：640000 10times Time:1375ms

cutoff：960000 10times Time:1325ms

cutoff：1280000 10times Time:1339ms

cutoff：1600000 10times Time:1326ms

cutoff：1920000 10times Time:1970ms

cutoff：2240000 10times Time:1970ms

cutoff：2560000 10times Time:1964ms

cutoff：2880000 10times Time:1963ms

cutoff：3200000 10times Time:1947ms

Degree of parallelism : 64

cutoff：320000 10times Time:1274ms

cutoff：640000 10times Time:1419ms

cutoff：960000 10times Time:1355ms

cutoff：1280000 10times Time:1324ms

cutoff：1600000 10times Time:1324ms

cutoff：1920000 10times Time:1964ms

cutoff：2240000 10times Time:1960ms

cutoff：2560000 10times Time:1973ms

cutoff：2880000 10times Time:1952ms

cutoff：3200000 10times Time:1941ms

Process finished with exit code 0