Size of Array: 50000
Degree of parallelism: 2

cutoff : 5000	10times Time:196ms
cutoff : 10000	10times Time:82ms
cutoff : 15000	10times Time:36ms
cutoff : 20000	10times Time:37ms
cutoff : 25000	10times Time:35ms
cutoff : 30000	10times Time:70ms
cutoff : 35000	10times Time:68ms
cutoff : 40000	10times Time:26ms
cutoff : 45000	10times Time:25ms
cutoff : 50000	10times Time:25ms

Degree of parallelism: 4

cutoff : 5000	10times Time:76ms
cutoff : 10000	10times Time:35ms
cutoff : 15000	10times Time:27ms
cutoff : 20000	10times Time:31ms
cutoff : 25000	10times Time:35ms
cutoff : 30000	10times Time:40ms
cutoff : 35000	10times Time:54ms
cutoff : 40000	10times Time:26ms
cutoff : 45000	10times Time:25ms
cutoff : 50000	10times Time:29ms

Degree of parallelism: 8

cutoff : 5000	10times Time:37ms
cutoff : 10000	10times Time:25ms
cutoff : 15000	10times Time:13ms
cutoff : 20000	10times Time:31ms
cutoff : 25000	10times Time:21ms
cutoff : 30000	10times Time:16ms
cutoff : 35000	10times Time:31ms
cutoff : 40000	10times Time:31ms
cutoff : 45000	10times Time:23ms
cutoff : 50000	10times Time:31ms

Degree of parallelism: 16

cutoff : 5000	10times Time:15ms
cutoff : 10000	10times Time:38ms
cutoff : 15000	10times Time:16ms
cutoff : 20000	10times Time:15ms
cutoff : 25000	10times Time:32ms
cutoff : 30000	10times Time:31ms
cutoff : 35000	10times Time:22ms
cutoff : 40000	10times Time:31ms
cutoff : 45000	10times Time:32ms
cutoff : 50000	10times Time:22ms

Degree of parallelism: 32

```
cutoff : 5000        10times Time:31ms
cutoff : 10000       10times Time:23ms
cutoff : 15000       10times Time:23ms
cutoff : 20000       10times Time:24ms
cutoff : 25000       10times Time:24ms
cutoff : 30000       10times Time:28ms
cutoff : 35000       10times Time:27ms
cutoff : 40000       10times Time:27ms
cutoff : 45000       10times Time:24ms
cutoff : 50000       10times Time:26ms
Degree of parallelism: 64
cutoff : 5000        10times Time:33ms
cutoff : 10000       10times Time:20ms
cutoff : 15000       10times Time:24ms
cutoff : 20000       10times Time:24ms
cutoff : 25000       10times Time:23ms
cutoff : 30000       10times Time:28ms
cutoff : 35000       10times Time:28ms
cutoff : 40000       10times Time:26ms
cutoff : 45000       10times Time:28ms
cutoff : 50000       10times Time:29ms


Process finished with exit code 0



Size of Array: 100000
Degree of parallelism: 2
cutoff : 5000        10times Time:332ms
cutoff : 10000       10times Time:178ms
cutoff : 15000       10times Time:69ms
cutoff : 20000       10times Time:69ms
cutoff : 25000       10times Time:62ms
cutoff : 30000       10times Time:101ms
cutoff : 35000       10times Time:100ms
cutoff : 40000       10times Time:53ms
cutoff : 45000       10times Time:54ms
cutoff : 50000       10times Time:62ms
Degree of parallelism: 4
cutoff : 5000        10times Time:85ms
cutoff : 10000       10times Time:53ms
cutoff : 15000       10times Time:47ms
cutoff : 20000       10times Time:54ms
cutoff : 25000       10times Time:46ms
cutoff : 30000       10times Time:47ms
cutoff : 35000       10times Time:38ms
cutoff : 40000       10times Time:47ms
cutoff : 45000       10times Time:53ms
```

```
cutoff : 50000          10times Time:48ms
Degree of parallelism: 8
cutoff : 5000           10times Time:52ms
cutoff : 10000          10times Time:47ms
cutoff : 15000          10times Time:38ms
cutoff : 20000          10times Time:46ms
cutoff : 25000          10times Time:54ms
cutoff : 30000          10times Time:47ms
cutoff : 35000          10times Time:37ms
cutoff : 40000          10times Time:47ms
cutoff : 45000          10times Time:54ms
cutoff : 50000          10times Time:47ms
Degree of parallelism: 16
cutoff : 5000           10times Time:69ms
cutoff : 10000          10times Time:31ms
cutoff : 15000          10times Time:53ms
cutoff : 20000          10times Time:31ms
cutoff : 25000          10times Time:47ms
cutoff : 30000          10times Time:69ms
cutoff : 35000          10times Time:54ms
cutoff : 40000          10times Time:47ms
cutoff : 45000          10times Time:46ms
cutoff : 50000          10times Time:38ms
Degree of parallelism: 32
cutoff : 5000           10times Time:47ms
cutoff : 10000          10times Time:53ms
cutoff : 15000          10times Time:47ms
cutoff : 20000          10times Time:38ms
cutoff : 25000          10times Time:47ms
cutoff : 30000          10times Time:38ms
cutoff : 35000          10times Time:47ms
cutoff : 40000          10times Time:53ms
cutoff : 45000          10times Time:47ms
cutoff : 50000          10times Time:53ms
Degree of parallelism: 64
cutoff : 5000           10times Time:63ms
cutoff : 10000          10times Time:47ms
cutoff : 15000          10times Time:51ms
cutoff : 20000          10times Time:42ms
cutoff : 25000          10times Time:48ms
cutoff : 30000          10times Time:46ms
cutoff : 35000          10times Time:47ms
cutoff : 40000          10times Time:40ms
cutoff : 45000          10times Time:50ms
cutoff : 50000          10times Time:50ms


Process finished with exit code 0
```

Size of Array: 200000
Degree of parallelism: 2
cutoff：5000　　　　　10times Time:564ms
cutoff：10000　　　　10times Time:416ms
cutoff：15000　　　　10times Time:116ms
cutoff：20000　　　　10times Time:207ms
cutoff：25000　　　　10times Time:100ms
cutoff：30000　　　　10times Time:116ms
cutoff：35000　　　　10times Time:116ms
cutoff：40000　　　　10times Time:116ms
cutoff：45000　　　　10times Time:100ms
cutoff：50000　　　　10times Time:116ms
Degree of parallelism: 4
cutoff：5000　　　　　10times Time:116ms
cutoff：10000　　　　10times Time:110ms
cutoff：15000　　　　10times Time:89ms
cutoff：20000　　　　10times Time:91ms
cutoff：25000　　　　10times Time:90ms
cutoff：30000　　　　10times Time:96ms
cutoff：35000　　　　10times Time:81ms
cutoff：40000　　　　10times Time:100ms
cutoff：45000　　　　10times Time:100ms
cutoff：50000　　　　10times Time:85ms
Degree of parallelism: 8
cutoff：5000　　　　　10times Time:116ms
cutoff：10000　　　　10times Time:84ms
cutoff：15000　　　　10times Time:85ms
cutoff：20000　　　　10times Time:78ms
cutoff：25000　　　　10times Time:85ms
cutoff：30000　　　　10times Time:84ms
cutoff：35000　　　　10times Time:69ms
cutoff：40000　　　　10times Time:93ms
cutoff：45000　　　　10times Time:92ms
cutoff：50000　　　　10times Time:82ms
Degree of parallelism: 16
cutoff：5000　　　　　10times Time:117ms
cutoff：10000　　　　10times Time:84ms
cutoff：15000　　　　10times Time:87ms
cutoff：20000　　　　10times Time:75ms
cutoff：25000　　　　10times Time:100ms
cutoff：30000　　　　10times Time:85ms
cutoff：35000　　　　10times Time:85ms
cutoff：40000　　　　10times Time:78ms
cutoff：45000　　　　10times Time:85ms
cutoff：50000　　　　10times Time:69ms

Degree of parallelism: 32
cutoff：5000   10times Time:115ms
cutoff：10000   10times Time:85ms
cutoff：15000   10times Time:85ms
cutoff：20000   10times Time:84ms
cutoff：25000   10times Time:89ms
cutoff：30000   10times Time:83ms
cutoff：35000   10times Time:80ms
cutoff：40000   10times Time:78ms
cutoff：45000   10times Time:87ms
cutoff：50000   10times Time:83ms
Degree of parallelism: 64
cutoff：5000   10times Time:83ms
cutoff：10000   10times Time:94ms
cutoff：15000   10times Time:85ms
cutoff：20000   10times Time:84ms
cutoff：25000   10times Time:85ms
cutoff：30000   10times Time:84ms
cutoff：35000   10times Time:85ms
cutoff：40000   10times Time:78ms
cutoff：45000   10times Time:69ms
cutoff：50000   10times Time:85ms

Process finished with exit code 0