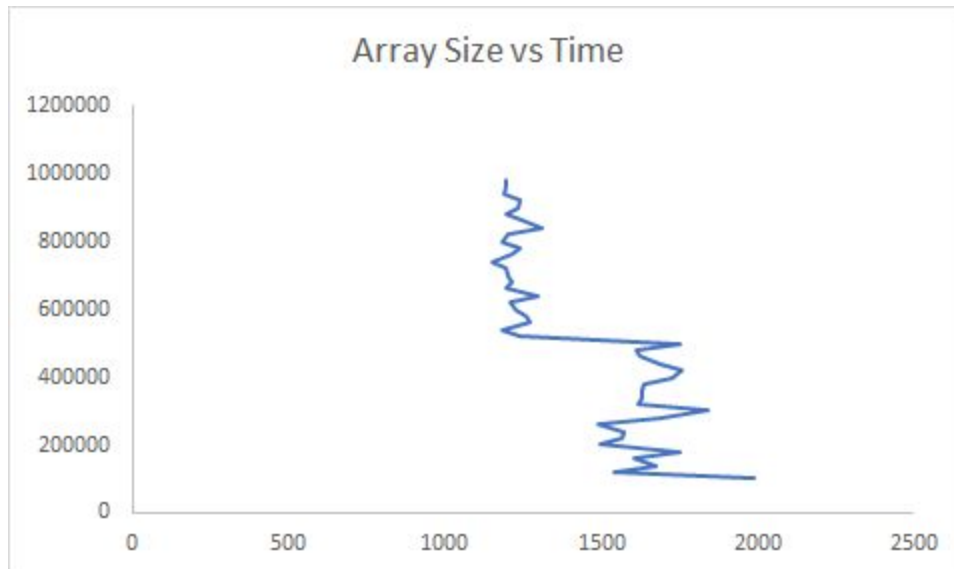


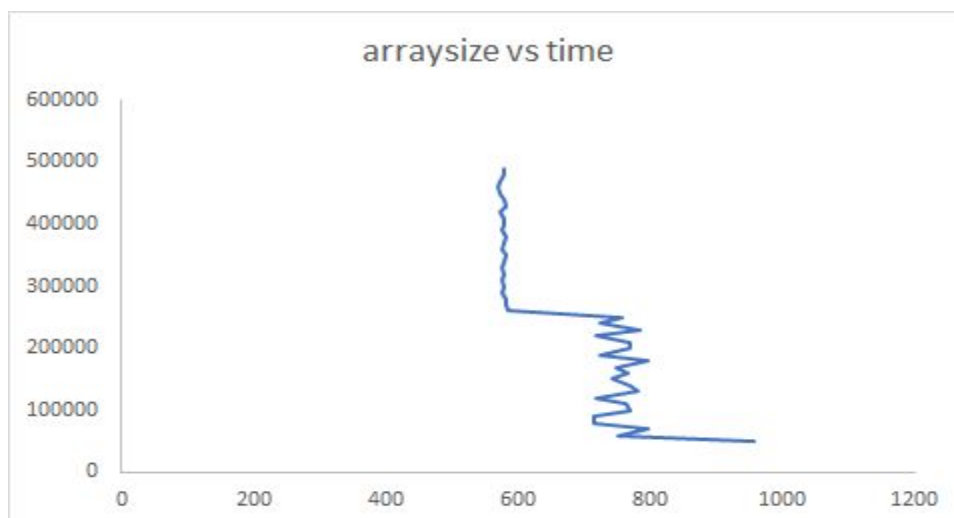
We find degree of parallelism is 3. The number of threads is 4 as One is used for operating system.

I have run for 5 cases as attached in excel sheet

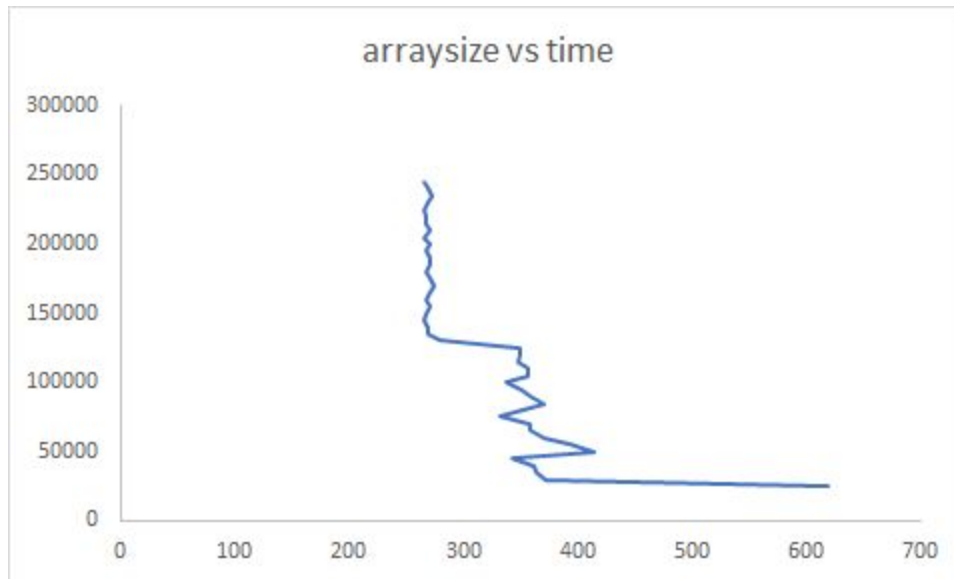
For sizes of 2000000,1000000,500000,200000,25000 as consecutively below



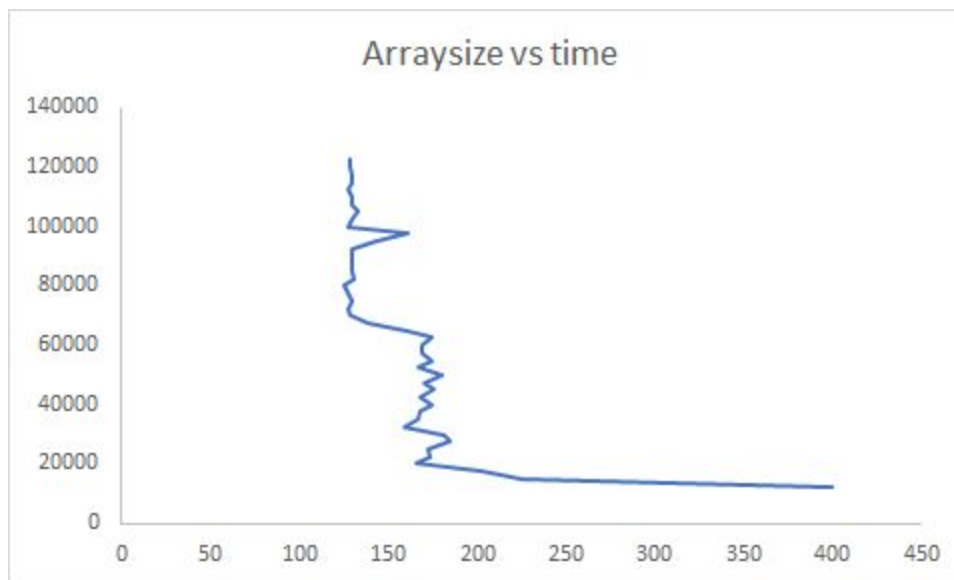
Here we find cutoff at 980000 after which size of array is not less than cutoff  
After which need not run in parallel (2 million)



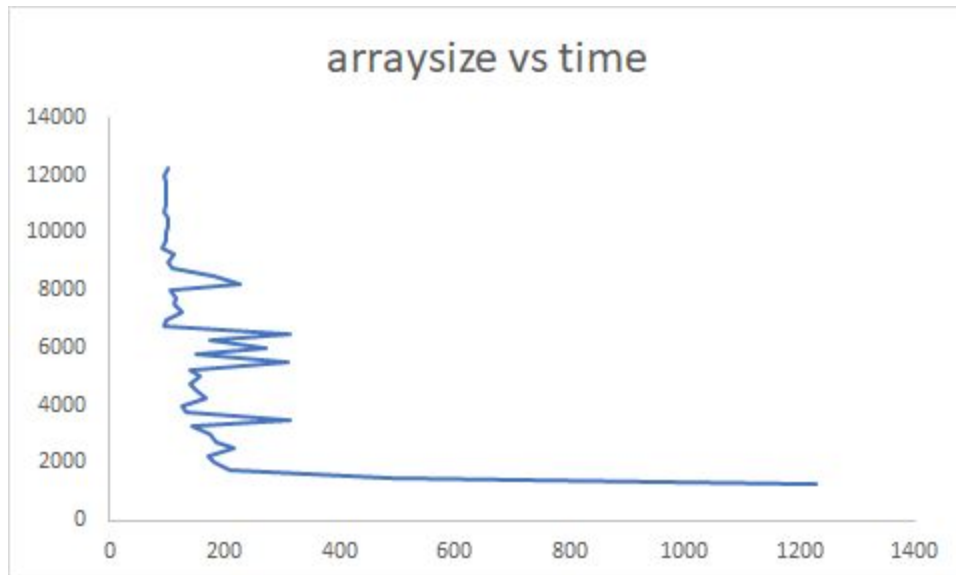
Here we find cutoff at 490000 after which size of array is not less than cutoff  
After which need not run in parallel( 1 million)



Here we find cutoff at 245000 after which size of array is not less than cutoff  
After which need not run in parallel( 500000)



Here we find cutoff at 122500 after which size of array is not less than cutoff  
After which need not run in parallel( 250000)



Here we find cutoff at 12250 after which size of array is not less than cutoff  
After which need not run in parallel( 25000)

Therefore we can conclude in all cases at 49 percent of arraysize we experience cutoffna