

Create an application to find the integer in the range 1 to 10000 that has the largest number of divisors.

Do this application in three ways:

1. Single threaded application
2. Multiple threads – the number of integers to be processed are chosen to be evenly divisible by the number of threads. If there are T threads and N integers, then each thread gets at least N/T integers (where N/T means the integer quotient, discarding any remainder).
3. Using ExecutorFramework Thread Pool

Find out the performance of each method by finding the time of execution. Document which of the above methods is most efficient.