Answers: Algorithms and Complexity

1. Check Prime – Calculate the Complexity (Worst Case)

Answer: linear

2. Check Prime – Calculate the Complexity (Best Case)

Answer: constant

3. Fast Check Prime – Calculate the Complexity

Answer: sqrt(n)

4. First N Primes – Calculate the Complexity

Answer: n*sqrt(n)

5. First N Primes – Calculate the Memory Consumption

Answer: linear

6. Primes in Range – Calculate the Complexity

Answer: n*sqrt(n)

7. Compare Execution Speed

It depends on the computer.