2. Table and Graph

|  |  |
| --- | --- |
| n | Time(microseconds) |
| 1 | 1 |
| 2 | 1 |
| 3 | 1 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 1 |
| 8 | 1 |
| 9 | 1 |
| 10 | 1 |
| 20 | 2 |
| 30 | 2 |
| 50 | 3 |
| 100 | 12 |
| 150 | 30 |
| 200 | 48 |
| 500 | 272 |
| 1000 | 878 |
| 1500 | 2019 |
| 2000 | 3430 |
| 2500 | 5372 |
| 5000 | 20799 |
| 7500 | 48937 |
| 10000 | 83537 |
| 15000 | 215764 |
| 20000 | 367817 |
| 30000 | 787061 |
| 40000 | 1377409 |
| 50000 | 2167757 |

Runtime (microseconds)

Values of n