

Question 1

B.) Fibonacci Numbers 35-40 Times.

1.Fib35: 1.75 seconds

2.Fib36: 2.58 seconds

3.Fib37: 3.96 seconds

4.Fib38: 5.91 seconds

5.Fib39: 8.31 seconds

6.Fib40: 12.96 seconds

-The difference between the time to compute Fib39 and Fib40 was 4.65 seconds *roughly*

C.) After looking at the pattern between the numbers and their respective times, and doing some rounding of the times I determined that the time jumped roughly 2 seconds every two numbers. For example Fib38 and Fib39 have a two second difference between them roughly while Fib39 and Fib40 have a 4-5 second difference between them. Using this pattern I determined that Fib60 would take 294 seconds, or rather almost 5 minutes to compute.