Given the following Activity on node network. The letters represent activity name and the numbers represent activity durations.

B(6)

A(4)

D(5)

C(6)

E(4)

F(5)

Start

End

1. **3 points.** Enter the total float (total slack) of each activity in the following table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Activity | A | B | C | D | E | F |
| Total Float |  |  |  |  |  |  |

1. **4 points.** Suppose the standard deviation of duration of each activity is 1/3 of the mean of the duration of that activity. Compute the probability of completing the critical path in less than 19 days.
2. **3 points.** Suppose an activity has Normal distribution with mean of 50 days and Standard Deviation of 10 days. Using Rand()=0.4 generate a random instance of this activity.