Assignment Three - Software Engineering

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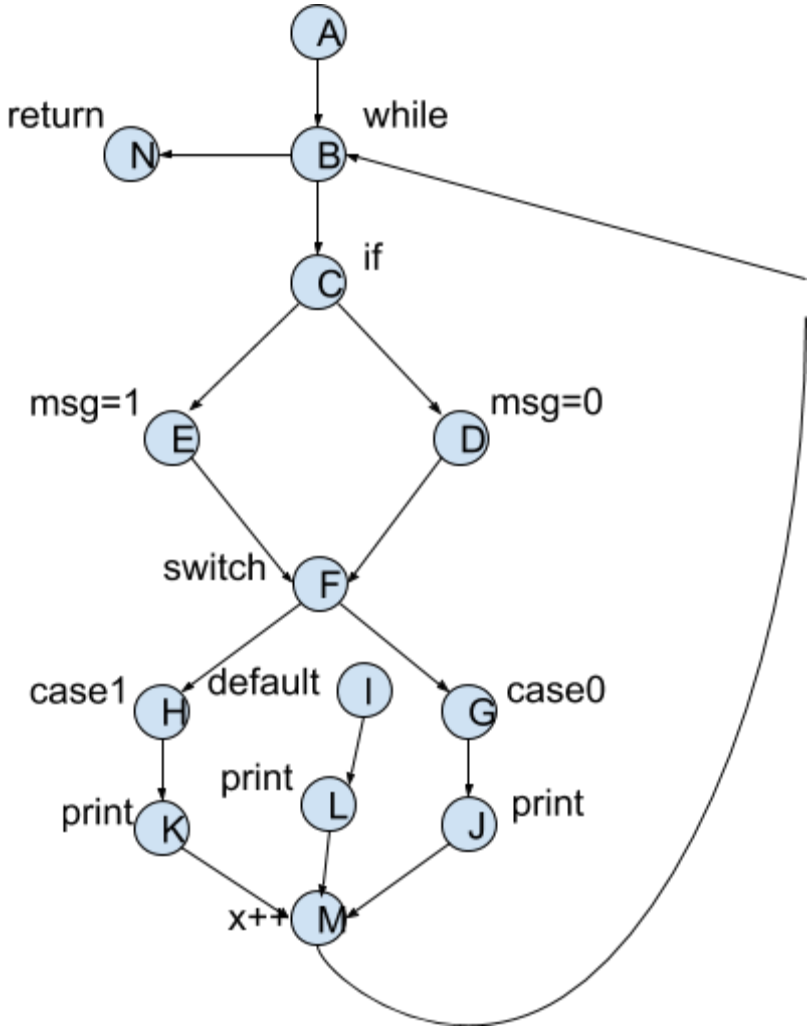
a. Downtime = 10mins
   Uptime = 20 days - 10m= 1440m*20d = 28800m - 10m = 28790m
   Availability = Uptime / (Uptime+Downtime)
      Availability = 28790m / (28790m+10m)
      Availability = 0.99965 = 99.965%
   The application server is available 99.96%

b. Downtime = 1 min * (28800/240) = 120m
   Uptime = 20 days - 120m = 28800 - 120 = 28680m
   Availability = Uptime / (Uptime+Downtime)
      Availability = 28680m / (28680m+120m)
      Availability = .995 = 99.5%
   The application server is available 99.5%

a.



b. B-C-E-F-H-K-M-B-N
B-C-D-F-I-L-M-B-N

c.
```
Test = [2,3];
fun_01(2, Test);
for(int i=0;i<39;i++){
        Test[0] = Test[0]+1;
        Test[1] = Test[1]+1;
        fun_01(2,Test);
}
```