G11. In the machine repair model, suppose that the repair facility consists of two repairmen, each of whom takes an exponentially distributed random amount of time to repair a failed machine. It is assumed that when both the servers are free then customer goes to server that has been idle longer. Input variables are K = 12, = 30,  = 20, Tmax = 10 units of time.

1. Draw a flow diagram for this system.
2. Write a program to simulate the system for estimating.