Group # 4 members: Abir Haque, Yangfan Zhou, Shunuan Hu, Ahmed Hossain, Weiwei Ye

lambdaA = 6, lambdaB = 8, lambdaC = 10, muA = 8, muB = 10, muC = 12, muR = 30

rhoA = lambdaA/muA = 6/8 = .75

rhoB = lambdaB/muB = 8/10 = .8

rhoC = lambdaC/muC = 10/12 = .83

avg lengthA = rhoA/(1-rhoA) = .75/(1-.75) = 3

avg lengthB = rhoB/(1-rhoB) = .8/(1-.8) = 4

avg lengthC = rhoC/(1-rhoC) = .83/(1-.83) = 4.88

length Idle periodA = 1/ lambdaA = 1/6 = .166

length Idle periodB = 1/ lambdaB = 1/8 = .125

length Idle periodC = 1/ lambdaC = 1/10 = .1

rhoR = lambdaR/muR = 24/30 = .8

Avg lengthR = rhoR/(1-rhoR) = 4

Length Idle period = 1/ lambda = 1/24