Nami: Namay Goyal Reli No: 180123029. sol (2) (a) M/ss/1 E [Service time] = p(b) + (1-p)] = (1-1) Now for stability mean inter arrival time > .: It inter arrival times are Exp(2). コンノー コートイト (b) sunja time ~ Exp(p/1-p) =) Var [Service Time] = (1-p)2. Laplace transformation: $(F_{q}(t))_{oplane} = p + (1-p)_{q}$ (S+p)a) any maiting time: ps(x)+ (1-p) pe-px.