Homework 4 Solutions

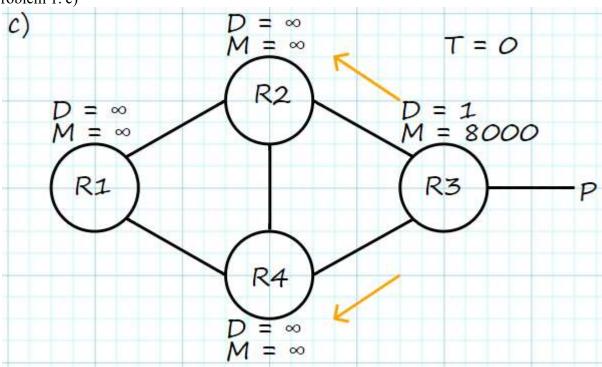
Problem 1.a)

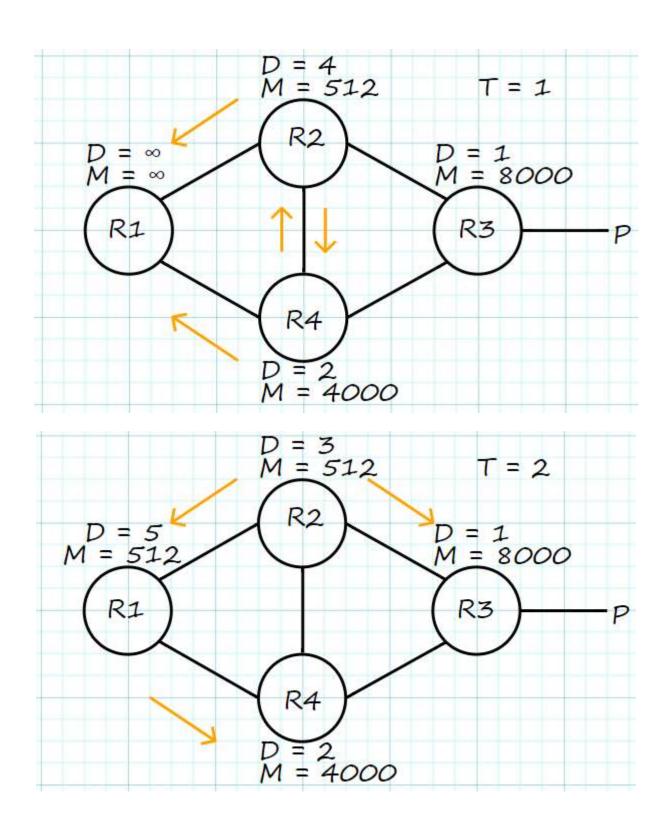
a)Shortest path from R1 to P: R1->R2->R4->R3->P Smallest Packet W/o Fragmentation: 512 bytes

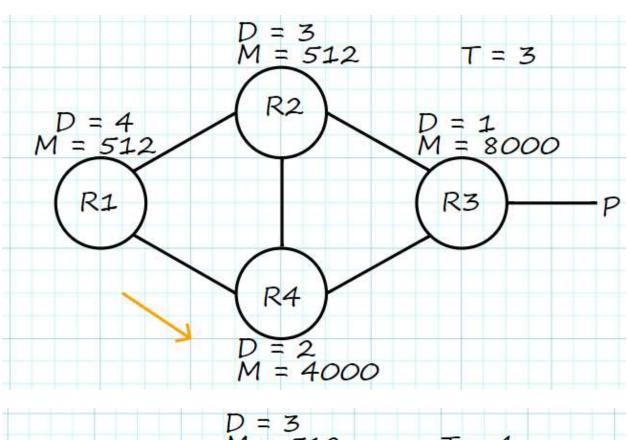
Problem 1.b)

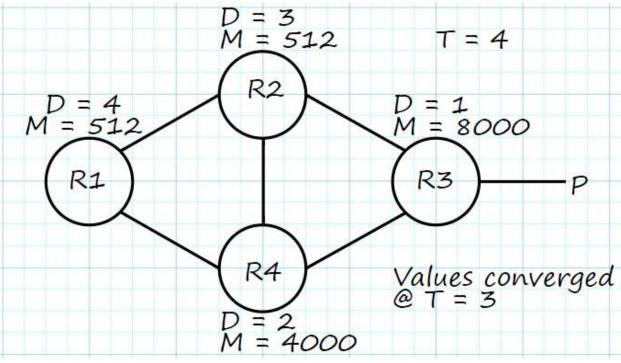
b)Distance(P,R) = min(Distance(P,N) + Distance(R,N)) Let X = argmin(Distance(P,N) + Distance(R,N)) MinMaxPacketSize = min(MinMaxPacketSize(P,X), MinMaxPacketSize(R,X))

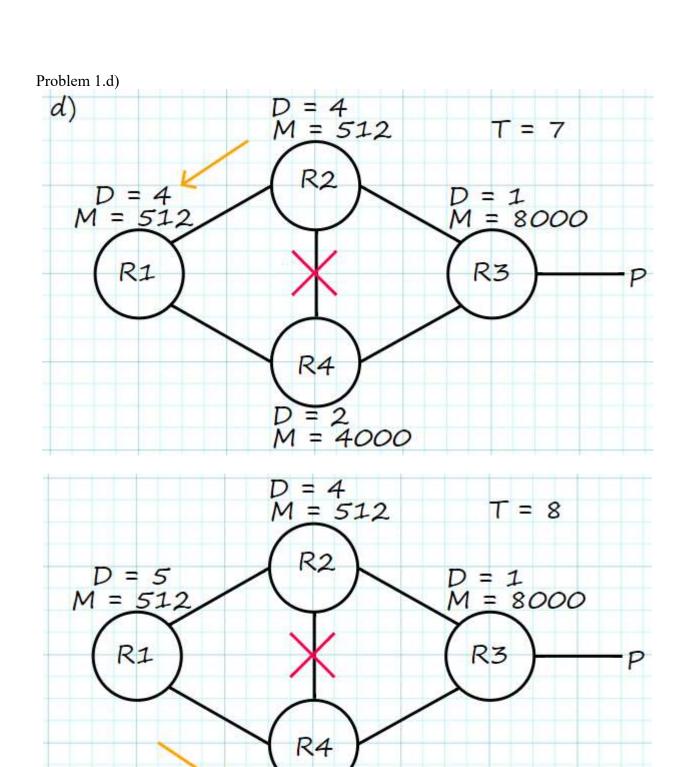
Problem 1. c)



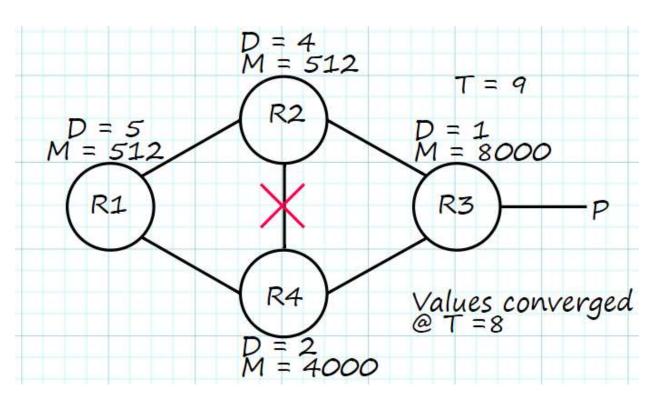




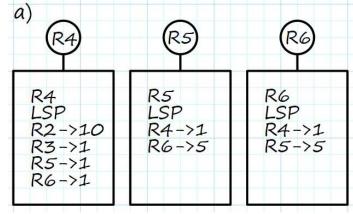




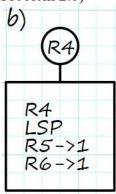
D = 2 M = 4000



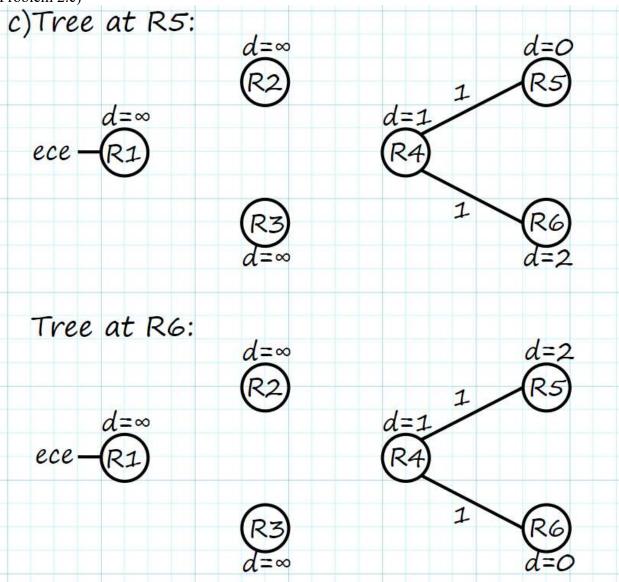




Problem 2.b)



Problem 2.c)



The updated LSP from R4 will update the global view. After Dijkstra's is run, ece will have a distance of ∞ which is unreachable