

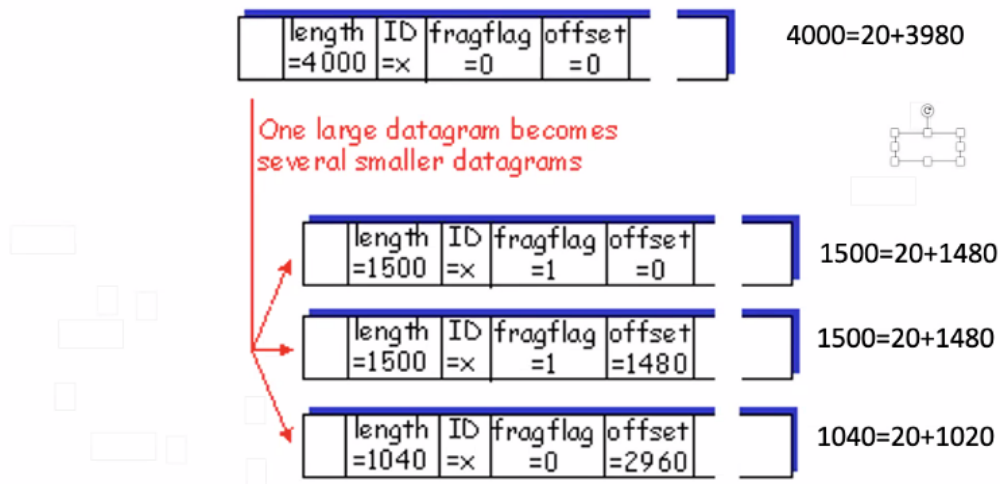
Q17 B

Q18

Length=1500	ID=x	Fragflag=1	Offset=0	1500=20+1480
Length=1500	ID=x	Fragflag=1	Offset=1480	1500=20+1480
Length=1040	ID=x	Fragflag=0	Offset=2960	1040=20+1020

Q18

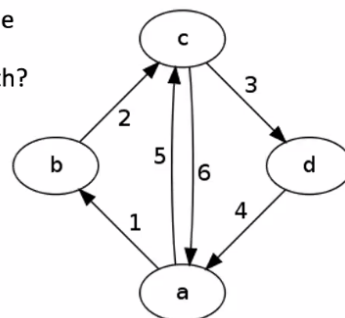
- Suppose an IPv4 datagram is fragmented into three datagrams. The MTU is 1500 bytes. Fill in the information in the diagram below.



Q19 The shortest path is a-b-c-d, the cost is 6

Q19

What is the shortest path from node a to node d?
What is the cost of the shortest path?

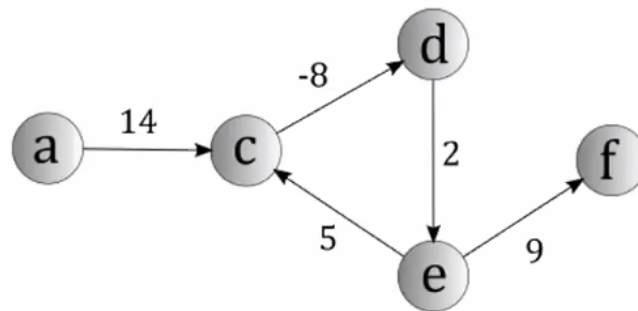


Q20 There is no such shortest path because there is a negative cycle.

Q20

What is the shortest path from node a to node f?

What is the cost of the shortest path?



The notion of shortest path does not make sense here since one can keep going around the negative cycle over and over again.