

Chapter 3

Problem 36

On the first network, the first 1004 data bytes will be transmitted along with a 20 byte header and an offset of 0 for the first message. For the second message, the remaining 20 data bytes, along with a 20 byte header will be transmitted. The offset for this message will be 1004.

On the second network, the first 556 data bytes will be transmitted along with the 20 byte header and an offset of 0. A second message, containing the remaining 468 bytes along with a 20 byte header and an offset of 556.

Problem 46

Part a

Information at node	Distance to reach node					
	A	B	C	D	E	F
A	0	∞	3	8	∞	∞
B	∞	0	∞	∞	2	∞
C	3	∞	0	∞	1	6
D	8	∞	∞	0	2	∞
E	∞	2	1	2	0	∞
F	∞	∞	6	∞	∞	0

Part b

Information at node	Distance to reach node					
	A	B	C	D	E	F
A	0	∞	3	8	10	9
B	∞	0	3	4	2	∞
C	3	3	0	3	1	6
D	8	4	3	0	2	∞
E	10	2	1	2	0	7
F	9	∞	6	∞	7	0

Part c

Information at node	Distance to reach node					
	A	B	C	D	E	F
A	0	6	3	8	10	9
B	6	0	3	4	2	9
C	3	3	0	3	1	6
D	8	4	3	0	2	9
E	10	2	1	2	0	7
F	9	9	6	9	7	0

Problem 52

Problem 55

Problem 64