

# Course ISE 327, EEE 051: Introduction to Computer Networks

## Recitation 8 Exercise

Michael J. May

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### 1 Subnetting

An organization has a class C network 200.1.1 and wants to form subnets for four departments, with hosts as follows:

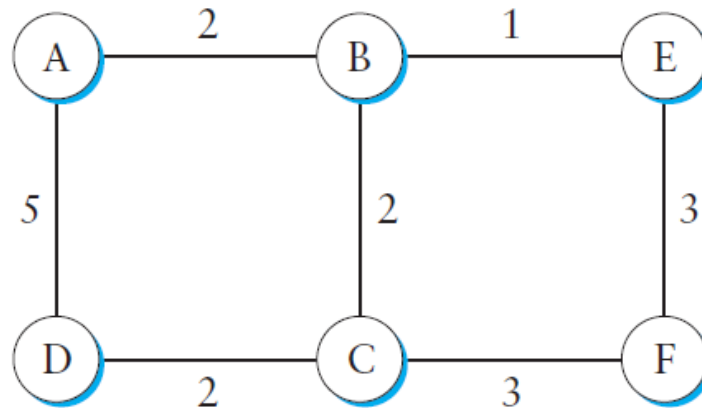
- A 72 hosts
- B 35 hosts
- C 20 hosts
- D 18 hosts

There are 145 hosts in all.

- (a) Give a possible arrangements for subnet masks to make this possible.
- (b) Suggest what the organization might do if department D grows to 34 hosts.

### 2 RIP

For the network below, give global distance-vector tables when



- (a) each node knows only the distances to its immediate neighbors.
- (b) each node has reported the information it had in the preceding step to its immediate neighbors.
- (c) step (b) happens a second time.

Use the following format for your answers:

Information Stored at Node	Distance to Reach Node					
	A	B	C	D	E	F
A						
B						
C						
D						
E						
F						