

## Block Diagramming Example – OMGT3123

Clem is in the process of setting up facility space for a call-in service center for customers having difficulties with their modems. The service center has six stations. The current layout in the space is as shown in Figure 1.1. The anticipated flow of customer calls that will be passed between each station is given in Table 1.1. Clem must revise the current layout so non-adjacent loads are minimized and calls, paperwork, and employees move efficiently. Nonadjacent loads cost the company \$2 whereas, adjacent loads cost the company only \$1.

Figure 1.1 – Current Layout

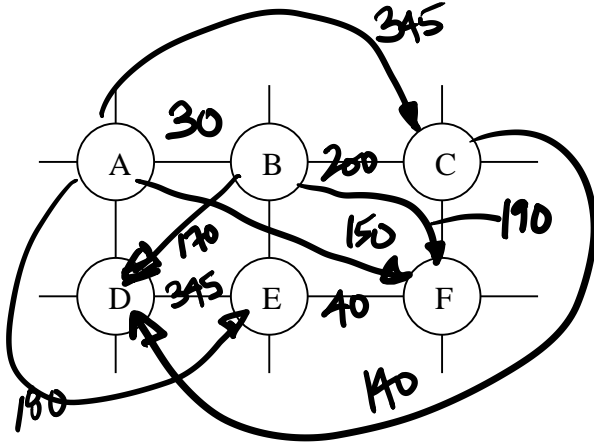


Table 1.1 – Load Summary

To From	Station					
Station	A	B	C	D	E	F
A		30	345	--	180	150
B			200	170	--	190
C				140	--	--
D					345	--
E						40
F						

### Adj LOADS

A → B 30  
 B → C 200  
 D → E 345  
 E → F 40  
615

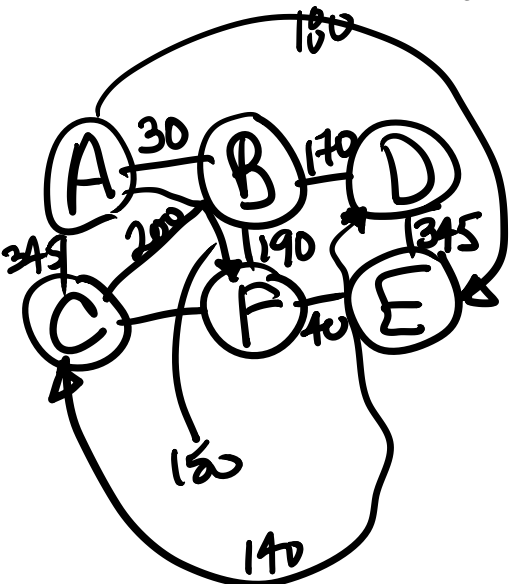
### Non Adj LOADS

A → C 345  
 A → E 180 x2  
 A → F 150  
 B → D 170  
 B → F 190  
 C → D 140  
1175

1175  
 2  
2350

### Total Load

2350  
 615  
2965



### Adj Load

A → B 30  
 D → E 345  
 E → F 40  
 A → C 345  
 B → D 170  
 B → F 190  
1120

### Non-Adj Load

B → C 200 x2  
 A → E 180  
 A → F 150  
 C → D 140  
670

### Total Loads

670  
 2  
1340  
 1120  
2460