

CS 357 - Computer Networks I

Assignments 4

Due Wednesday June 12, 2002 @ 8:30 a.m.

Due on the CS 357 locker No. 103, MC building, ground floor (beside the elevator)

Do not forget to write CLEARLY your name, your student number, and sign the submission form

1. Trace (step by step) Algorithm 13.1 listed in page 210 in your text book (i.e., Dijkstra's algorithm), using the weighted graph in figure 13.9, page 208.

Consider node 6 as the designated source node.

2. A router, D, uses distance vector routing. It has the following routing table:

Destination	Distance	Next-Hop
A	3	A
B	3	B
C	1	C
D	0	-
F	6	A
G	4	C
H	9	A

The router received the following packet from router C:

Destination	Distance
A	4
B	1
C	0
D	1
F	4
G	5
K	8

What is the updated routing table for router D?
