



## HKUSTx: ELEC1200.3x A System View of Communications: From Signals to Packets (Part 3)

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### Lab 2 Task 3 Question - almost there?

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discussion posted about an hour ago by [KarenWest](#)

I have an error at time=2 for  $RT\{3\}$  but when I went through all the below numbers, it seems correct to me, but of course, I'm wrong - does anyone know where I went wrong here?

%  $RT\{\text{linked}\}(k,2)$  = cost of neighbor linked to get to node k = A

%  $RT\{n\}(k,2)$  = cost of node n to get to node k = B = cost

%  $RT\{n\}(\text{linked},2)$  = cost of node n to get to node linked = C

% if cost of B > cost of (A + C) then update route cost of n to A+C

```
A = RT{linked}(k,2);
B = RT{n}(k,2);
C = RT{n}(linked,2);
if (B > A + C) || ((B == inf) && (A ~= inf) && (C ~=
inf))
    RT{n}(k,2) = A + C;
    RT{n}(k,1) = linked;
end
```

output error - The variable  $RT\{3\}$  at time 2 is incorrect - ?? - seems correct to me?

Node 1: neighbors: 2,3,4 costs: 2,5,1

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$$RT\{1\}$$

time1:	time2:	time3:
0 0	0 0	0 0
2 2	2 2	2 2
4 4	4 3	4 3
4 1	4 1	4 1
4 2	4 2	4 2
3 10	4 4	4 4

Node 2: neighbors: 1,3,4 costs: 2,3,2

$$RT\{2\}$$

time1:	time2:	time3:
1 2	1 2	1 2
0 0	0 0	0 0
3 3	3 3	3 3
4 2	4 2	4 2
4 3	4 3	4 3
3 8	4 5	4 5

Node 3: neighbors: 1,2,4,5,6 costs: 5,3,3,1,5

$$RT\{3\}$$

time1:	time2:	time3:
4 4	4 3	4 3
2 3	2 3	2 3
0 0	0 0	0 0
5 2	5 2	5 2
5 1	5 1	5 1
5 3	5 3	5 3

Node 4: neighbors: 1,2,3,5 costs: 1,2,3,1

payment

2

the new Matlab interface is much more user friendly

4

? lab

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RT{4}

time1:	time2:	time3:
1 1	1 1	1 1
2 2	2 2	2 2
5 2	5 2	5 2
0 0	0 0	0 0
5 1	5 1	5 1
5 3	5 3	5 3

Node 5: neighbors: 3,4,6 costs: 1,1,2

RT{5}

time1:	time2:	time3:
4 2	4 2	4 2
4 3	4 3	4 3
3 1	3 1	3 1
4 1	4 1	4 1
0 0	0 0	0 0
6 2	6 2	6 2

Node 6: neighbors: 3,5 costs: 5,2

RT{6}

time1:	time2:	time3:
5 4	5 4	5 4
5 5	5 5	5 5
5 3	5 3	5 3
5 3	5 3	5 3
5 2	5 2	5 2
0 0	0 0	0 0

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