



Lab 2 Task 3 Question - almost there?

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discussion posted about 9 hours 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

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

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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3 responses

↩ Add a Response

vinothbabu

about 5 hours ago

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You use this $C = \text{cost}$; if $(B > A + C)$

yes correct - I spent too much time with my response and you answered quickly and simply.



posted about 4 hours ago by **PeterB001**

Add a comment

PeterB001

about 4 hours ago

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Hi Karen,

You are almost there - read the question again, carefully.

For each neighbor, which is referred to by the variable `linked` and which it can reach with the value stored in **cost**

In your case 'A' is the cost for 'linked' to 'k'. However if you assigned

```
A = cost + RT{linked}(k, 2);
```

Then 'A' becomes the cost from 'n' to 'k' through 'linked' and your IF statement becomes `if (A < B)` and eliminated 'C' in the program - including assignment of the new cost.

Regards

Peter

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aredirl

about an hour ago

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Just make one substitution as shown below

```
A = RT{linked}(k, 2);
B = RT{n}(k, 2);
C = cost;
```

It works...

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? [STAFF] Lab 2 Task 2

4

? Lab2 -Task 2

4

Lab 2 Task 3 Question - almost there?

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★ FOLLOWING

Lab 2 - Lack of feedback in the labs

2

Lab2 -Task 3

4

? Cost function symmetric?

3

? How does A determine costs to B, C?

3

Lab 2 Task 3

3

Lab 2 Task 1

1

? Lab 2 Task 3

2

packet data

1

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KarenWest

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about an hour ago



Thank you all for your helpful responses! It now works.

I changed:

```
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 + cost;
    RT{n}(k,1) = linked;
end
```

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[STAFF] Gold Winner Award

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[Staff] 4.2 Quiz part 2
Unmended

3

3.2 QUIZ QUESTION 2

3

how do you display the
routing table? (RT)

9

Lab2_4 problem in
getPathDijkstra()

2

[STAFF] 4.3 QUIZ QUESTION 1

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4.3 QUIZ QUESTION 1

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4.2 Quiz question 2

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4.2 ROUTING: DISTANCE
VECTOR ALGORITHM (DVA)

3

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