CS3205 LAB REPORT - 5

- Pitchika Vaastav(CS20B060)

Here is the report of the results obtained by running the algorithm on two different input network topologies.

Input 1:

9 20

0135

0279

0 3 10 11

1213

1 3 10 12

1469

7505

7868

7602

2813

8657

2368

2 4 5 12

2535

27915

8 5 11 13

6513

3 5 13 15

3 4 8 10

5 4 9 11

So now at a instant 120s timestamp if we check the updated routing tables then the outputs are of the form

Routing Table for Node No. 0 at Time 120

Destination	Path	Cost
1	0 1	4
2	0 1 2	6
3	0 3	10
4	0 1 4	11
5	0 1 2 5	10
6	01256	13
7	0187	15
8	0 1 8	7

Routing Table for Node No. 1 at Time 120

Destination	1	Path		Cost
0	1 0	4		
2	12	2		
3	123	10		
4	1 4	7		
5	125	6		
6	1256	3	9	
7	1287	7	11	
8	128	3		

Routing Table for Node No. 2 at Time 120

9			
Destinat	ion	Path	Cost
0	210	7	
1	2 1	3	
3	23	8	
4	214	10	
5	2 5	4	
6	256	7	
7	287	9	
8	28	1	

Routing Table for Node No. 3 at Time 120

_				
Destinati	on Pa	ath		Cost
0	3 0	11		
1	3 2 1	10		
2	3 2	7		
4	3 4	8		
5	3 2 5	11		
6	3256		14	
7	3287		16	
8	328	8		

Routing Table for Node No. 4 at Time 120

Destination	n	Path	Cost
0	4 1 0	12	
1	4 1	8	
2	4 1 2	10	
3	4 3	9	
5	4 5	9	
6	456	12	
7	487	17	
8	48	9	

Routing Table for Node No. 5 at Time 120

Destination	Pat	h		Cost
0	5210		10	
1	5 2 1	6		
2	5 2	3		
3	523	11		
4	5 4	11		
6	5 6	3		
7	5287		12	
8	528	4		

Routing Table for Node No. 6 at Time 120 Destination Path Cost

Routing Table for Node No. 7 at Time 120 Destination Path Cost 7 6

Routing	lable for No	de No.	8 at	Time 120
Destinat	ion Pa	ıth		Cost
0	8210		9	
1	8 2 1	5		
2	8 2	2		
3	823	10		
4	8214		12	
5	825	6		
6	8 6	7		
7	8 7	8		

The second input is:

10 21

0 3 9 11

1 3 10 12

9 4 9 11

2 4 5 12

The corresponding routing tables are:-

Routing Table for Node No. 0 at Time 120

Destination	1	Path		Cost
1	0 1	5		
2	02	7		
3	03	9		
4	094	12		
5	025	11		
6	098	6	13	
7	097	11		

8	098	6
9	0 9	3

Routing 1	able for No	ode No.	1 at 7	Time 120
Destination	on Pa	ath		Cost
0	1290		4	
2	1 2	2		
3	123	8		
4	1 4	7		
F	405	6		

11 11

5	1 2 3	U
6	1286	
7	1297	
8	128	4
9	129	3

Routing Table for Node No. 2 at Time 120

Destination	n Pat	h		Cost
0	2890		5	
1	2 1	1		
3	23	6		
4	2 1 4	8		
5	2 5	4		
6	286	9		
7	287	9		
8	28	2		
9	289	4		

Routing Table for Node No. 3 at Time 120

Destination		Path			Cost
0	390	ξ	9		
1	321	ξ	9		
2	32	3	3		
4	3214	4		16	
5	325	1	12		
6	3286	6		17	
7	397	1	16		

8	328	10
9	3 9	8

Routing Table for Node No. 4 at Time 120

Destination	Path			Cost
0	41290		11	
1	4 1	7		
2	4 1 2	9		
	4123		15	
5	4125		13	
6	41286		18	
7	41297		18	
8	4128		11	
9	4129		10	

Routing Table for Node No. 5 at Time 120

Destination	n Pat	:h		Cost
0	590	5		
1	5 2 1	4		
2	5 2	3		
3	523	9		
4	5214		11	
6	5286		12	
7	597	12		
8	528	5		
9	5 9	4		

Routing Table for Node No. 6 at Time 120

Destination		Path			Cost
0	6 9	0	6		
1	6 7	521		6	
2	6 7	5 2		5	
3	6 7	523		11	
4	6 7	5214		13	
5	6 7	5	2		
7	6 7		1		
8	68		5		

Routing Table for Node No. 7 at Time 120						
Destination	Path	Cost				
0	75290	6				
1	7 5 2 1	5				
2	752 4					
-	7523	10				
4	75214	12				
5	7 5 1					
6	75286	13				
8	7528	6				
9	7529	5				

Douting To	bla for	Nada Na	0 of Time 100
Routing Ta	pie ioi	node no.	8 at Time 120
Destination	1	Path	Cost
0	890	3	
1	821	4	
2	82	3	
3	823	9	
4	894	11	
5	825	7	
6	86	7	
7	8 7	7	
9	8 9	2	

Routing Ta	ble for	Node No.	9 at Time 120
Destination	1	Path	Cost
0	90	1	
1	9 1	5	
2	982	6	
3	903	10	
4	9 4	9	
5	975	9	
6	986	10	
7	9 7	8	
8	98	3	