

Society of St. Francis Xavier, Pilar's FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

FR. AGNEL ASHRAM, BANDRA(W), MUMBAI - 400 050.

**** UNIT TEST SUPPLEMENTARY ANSWER BOOK ****

DAT	E:BRANC	CH:	SEM:	ROLL	. NO :		
SUB	ECT:SUPERVISOR'S SIGN						
		ÜNI	TTEST [] / []				
		STA	RT WRITING HER	E			
	Single	Source	shorate	it Path	(Di	kstra's	
	1					algo)	
<u> 9. [</u>		5	0 (3)				
	10		- V				
	30	2	20				
	100	V	7		Legis I		
		3	50 4				
			17				
) let s	3 be	the s	ource ne	ode		
2) let	V &	NU be	two a	ray	S.	
	V holds	all	visited	vertices.	NU	holds al	
	unvisited	Verst	7		<u> </u>		
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	2007	Maria Commence					

12345
10000000
w = 2 00 0 50 00 00
3/00 00 0 00/0
4 00 00 20 0 60
5 00 00 00 00
s=&1.9. Nv=\$2,3,4,5-9
Mode 1 2 3 4 5
 dist - 10 00 30 100
Poed . I I
select node 2 add it to s array
5= \$ 1,2 9 1. 10= \$3,4,5 4
prode 2 ady 3
1, 5, 1, 6, 7, 1, 7
resiner dist[3] = min of dist[3], dist[2] + 0
w(2,379
= min 2 00, 10+50 g
dist(3) = 60.
Pred [3] = 2
note 12345
dist - 10 60 30 100
Pred - 12 11

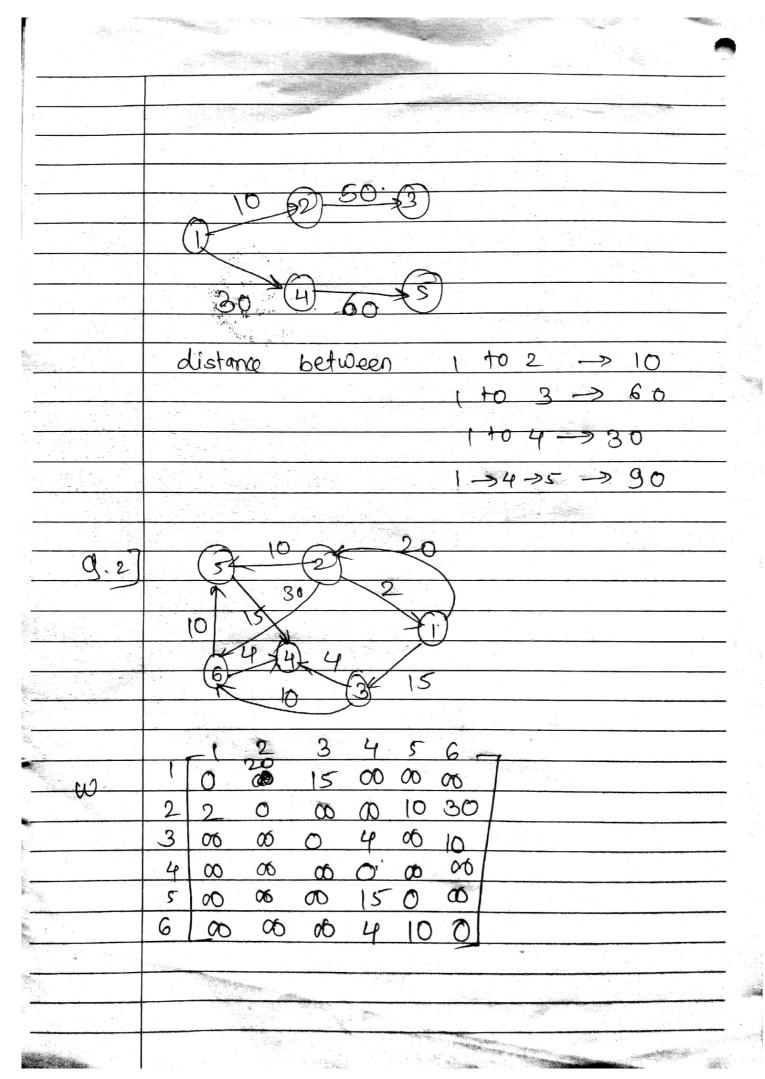


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			S (ASHIAM, MATTA)	
	100		S. CORMA S.	
	S	TART WRITING HER	E	
	194		n.	
	1 0	0	· • •	
4. 1	9= 91,2,3	5 4	Nu= 34,54	
fl	nada	16 10	th min distance	
	11000	(B W)	m man monde	
	, adi	0 5		
	4	3,5		
		Hocady vi	Pol	
	min	aroung or	5119	_ 0
	dist[5]= \$	distr-T	dist[4] + w[4,	- 9
	0001 ()) -	4031 (S),	0031(7) 1 0(7)	3
				<u> </u>
	. 0		A 9	
	= min 3	100 30+	-604	
	<u></u>			
	- min	\$ 100,90	Landing of the second	201
		·		
	dist[s] = g	<u> </u>	- Daniel	
	- 1	<u> </u>		
	P[5] = 4	and the second s		100
			Buch	
	mark 5	as Visite	a .	
			A STORY A CONTROL	
-0.12	1 2 3	415-1	and the same	
node		7/3		
dist		30 90		
	1 2	4		
Poed		4		





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IT TEST SUPPLEMENTARY ANSWER BOOK ****

	**** UNIT TEST SUIT LEME	(3)
DATE:	TE:BRANCH:SEM:	ROLL NO :
SUBJE	BJECT : SUPERVISOR	l'S SIGN
	UNIT TEST I / [III CANGUES COL
		FR. ABREE
		S MUMBAL SI
	START WRITING HEI	RE
	8=1	V= \$2,3,4,5,64
7	node 12345	6
C	distance - 20 15 00 00	00
	Pred - 1111	
1)) Mark 3 as vi	sited
25	/ 1 1 1	S = \$1,38
3)	I find nodes adja	
	adjacent	
	3 -> 4 & 6	
	dist[4]= min 3	
-	aust [4]= min 2	dist[4] dist[u]+ 0
- 15		w Cu, v 7 9
	dist(4)= min 2 00, 15	0
	() ()	149
-	distly pai = 1a	
	Proed [4]=3	
2/5	ist[6]= min { dist[6]	0
4		list[3] + w[3,6] 9
	= min \$ 00, 15+	10 &

dist[6]:25
Pred [6] = 3
2 3 4 5 6
node 1 2 3 4 5 6 dist, - 20 15 19 00 25
Poed - 1 1 1 1 2 3 1 2 4 3
select node with minimum distance
Node 4 Selected
45= \$1,3,49 AV= \$2,5,69
4 9 ×
select node 2 as it has minimum
select node 2 as 12 has minimum distance add to 3
0
3-21,3,4,29 Nv=\$5,69
adj about 5 / 6 .
7
dist[5]= min \ dist[5], dist[2] + w[2,5] \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
= min 3 00, 20 + 10 9
= 30
Procd (5] = 2
dist[6]= min \ dist[6], dist[2]+ \(\omega[2,6]\)
- min \$ 25, 20 + 30 g no change for
Wall [2 000 noat 6



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**** UNIT TEST SUPPLEMENTARY ANSWER BOOK ****

START WRITING HERE START	DATE:	BRANCH:	SE	M:	ROLL NO :	<u> </u>
UNITTEST [] / [] START WRITING HERE START WRITING HERE START WRITING HERE START WRITING HERE 20 15 19 30 25 1 1 3 2 Select node 6 add to 5= \$1,2,3,4,6 Nv = \$5 Alocady J Visited Start Writing HERE 20 15 19 30 25 1 1 3 2 Select node 6 add to 5= \$1,2,3,4,6 Nv = \$5 Alocady J Visited 5 min \$ 30, 25 + 10 - min \$ 30, 35 \$						
START WRITING HERE Thoche 1 2 3 4 5 6 20 15 19 30 25 1 3 3 3 3 3 3 4 5 6 20 15 19 30 25 1 1 3 3 3 3 3 4 5 6 20 15 19 30 25 1 1 3 3 3 3 3 3 4 5 6 Av = \$5\$ alored 4 1 1 5 alored 5 1 2 3 4 5 6 5 min \$ dist[5] \$ dist[6] + \omega[6] (6,5) = min \$ 30, 25 + 10 \$ 10 \$ 10 \$ 10 \$ 10 \$ 10 \$ 10 \$ 10			SUPE	RVISOR'S SIGN		
select node G. add to S=\$1,2,3,4,6} Nv = \$5 Averagly Visited E min \$ dist[5] & dist[6] + w[6,5] = min \$ 30, 25+10} = min \$ 30, 35 \$		UN	IT TEST [I / II	ORIGUES COLLEGE FR. AGWR. SHRAM, BARDRA	4
20 15 19 30 25 Select node 6. add to 3=\$1,2,3,4,6} Nv = \$5 Cadj 4,5 alocaly Visited Tist(s) = min f dist(s) & dist(6) + w(6,5) = min \$30, 25+10} = min \$30,35\$		ST	ART WRITIN	IG HERE	* 9 NUTT	
20 15 19 30 25 Select node 6. add to 3=\$1,2,3,4,6} Nv = \$5 Cadj 4,5 alocaly Visited Tist(s) = min f dist(s) & dist(6) + w(6,5) = min \$30, 25+10} = min \$30,35\$						
Select node 6. add to s=\$1,2,3,4,6} Nv = \$5] already visited the st(s) = min f dist(s) & dist(6) + 10(6,5) = min \$30, 25+109 = min \$30,359	ando	1 2	3	4 5	6	
Select node 6. add to s=\$1,2,3,4,6} Nv = \$5] already visited the st(s) = min f dist(s) & dist(6) + 10(6,5) = min \$30, 25+109 = min \$30,359	V	- 78	15	1930	25	
select node 6. add to s=\$1,2,3,4,6} Nv = \$5 aloedy visited tist(s)= min & dist(s) & dist(6) + w(6,5) = min \$30, 25+10 = min \$30,35}	 		1 12 - 1	3 2		
Nv= 55 6 adj 4,5 almost 4,5 almost 5 = min 2 dist 6 + 2 (6,5) = min 2 30, 25 + 10 2			·		<u> </u>	
aloeady visited dist(s) = min & dist(s) & dist(6) + w(6,5) = min & 30, 25 + 10 } = min & 30, 35 }	select	node	6 .	add t	0 5= \$1	2,3,4,6}
aloealy Visited dist(s) = min & dist(s) & dist(6) + w(6,5) = min & 30, 25 + 10 } = min & 30, 35 }		NV= \$	5			
dist(s) = min β dist(s) ϕ dist(6) + ω (6,5) = min β 30, 25 + 10 β = min β 30, 35 β		6 adj	4,5	•		
$= \min_{s \in S} \frac{30}{30}, \frac{25+10}{30}$		ala	seady 1			
= min 2 30,35 g	dis	rt(s)= min	& dis	tis] •	dist[6].	+ W[6,5]
= min 2 30,35 g		= mi	08 2	. 0	0 = +10 4	
			\			
		= mi	7	30,35	9	
No Charge						
		Mo		Marge		

