DIJKSTRA'S ALGORIZHM

We need to find the shortest distance from the source to all the other nodes in the graph. It can be done over directed or undirected graph.

Fitest we need to maintain a

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Application with manager and the control of the con	bisority quie, set or muliset, then
-	bisority quice, set or muliset, then we you need to perform Bry over every
·	child we visit and update the current
The same of the sa	distance to the minimum possible one
	or make no changes. Then simply
	do this por all the nodes, until
	all the modes are marked visited.
	If the end we have the shortest distance,
	from source to all the other modes
	in the graph.
	The state of the s
Total Control	0.9:
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	Pa /
	10 1) D317
VALTER	(J, T) 1-00 U
	(3,3) 12-4
	177 3-453
	13,37 14-40 3
	(2,3) $5-4$ 2
	(3,4) 6-964
	14,6)
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CONS? 2N? N= 105+10	D; 14: 11: 11: 11: 11: 11: 11: 11: 11: 11:
cons 3 2NF = 1e9+	10;
The second	no this w hthe
- Pair of vector to	store mode and its
Height together	(h. 60) 4
VECTOR < PAZR < 3N7, 2N7 >	> 9[N];
-> ligited overag	
NECSOK < 3N7 > Y28 (N))
- Distance array in	itialized with 3NF
NECSOB < 345 > D343 (N)	BUE);
	Idams . The sal
1030 D33K37RA (3N)	SOURCE)
	1 and of boils
SEZ < PAZR < 3NZ, 3NZ	>> 57; 11 get of how
to store weight	and node testo.
pribasso hebres)	to sugar as much
is that	
	E-110
-> Ingerting gou	
57. 3NSER7 (20, 50	dita conta D
-> setting soull	distance to 0
D333 T BOOKCE 7 - O	,
-> Run until set	is empty, just like BE
WH3LE (93. 937 E ()	>0)
£	the second of the second
AUZO NODE = ,	· S7. BEGIN (); [getting
253 clament	out of set
INP V = NODE.	
3N2 V-D393 =	
57. ERAGE (57. BE	
Direct element for	

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	IF (U3/[V]) CONJINUE;
	V38[v]=1;
	FOR (AUZO CHILD: g[V])
	INT CHILD 1 = CHILD F;
	IN3 M3 = CH3 LD. 5;
<u> </u>	\$ (D313 [N] + MS 5 D373 [CH31 DA])
	23 375 CH31D NJ= D333[NJ+MS;
Show.	23.347 EB3 (ED343 [CH31D-N] CH31DN
	3),
1.00	
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	The state of the s
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1.1	7. C. E. O (V+ Elog (V)) disher
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	the second secon
The state of the s	INS HOSEN ()
	Commence of the second
	3 m/2 m min of man of the
	(3N >> N >> m;
	- Discusso March 19. aph
4: ·	M-GEXT. PB(EY) W
	FOR (3N7 i=0; i < m; i++)
	IN7 X, Y, W?;
	(3N >> x xx y >> W7;
	-> Directed neighted graph
	SIXI. PB (Ey, W?);
2.1	11.11.3/

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	-> Running Dijlegters Mrc DIJKGRRA(1);	Am zoulle
	DIJKGRRA(1);	
	-) Printing shortlest distant nodes from source mode for [3N] [=1; [< m;]+	nce of oll
	noder Wan source node	•
	FOR (3N7 (=1; (< m;)+	+-)
	COUP << "DB13 OF NODE	17 << [<<
	" FROM SOURCE 1: " 2.	< D397 [i]
20 Mess	<< 22 \ m22;	
	}	
	The second secon	
	RETURN O;	
	320 5 :	
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