

Directed graph with 8 nodes and 12 edges

The input file is:

8 12 5 7 11	Dictionary_cost = {(5, 7): 11, (3, 4): 21, (4, 7): 56, (6, 0): 80, (1, 7): 76, (5, 2): 10, (5, 1): 6, (0, 4): 68, (6, 1): 18, (6, 4): 94, (2, 3): 95, (2, 7): 52}
3 4 21 4 7 56	(e) = 1. = 2, (e) = 1. e) (e) = 1. = 2, (e) =
6 0 80	Dictionary_in = {0: [6], 1: [5, 6], 2: [5], 3: [2], 4: [3, 0, 6], 5: [], 6: [], 7:
1 7 76 5 2 10	[5, 4, 1, 2]}
5 1 6	
0 4 68 6 1 18	Dictionary_out = {0: [4], 1: [7], 2: [3, 7], 3: [4], 4: [7], 5: [7, 2, 1], 6: [0, 1, 4], 7: []}
6 4 94	-/ · I/ · · · II/
2 3 95	
2 7 52	

Tepatedical norting wing the 175 algorithm					
- remider relets be the oracle					,
COURS	wenter, other venter, in Processes	inflooreds	lully Processed	* APTICALINE	86
mittallyaction		14	30	[]	
typ. topa wort de (0, [1, 14, 14)	NOUTER = 0	200	36	[]	
	other-wite=6		1	1	1
1844-18700-1884-10418 (6,17,19,104)	worthe=6	io	34	[]	
		10,64	164	[9]	true
	war =0	35	16,03	[6,0]	thue
1806 1806 1804 dfs (1,16,0), 16,01,14)	vertix=1	34	16,04	[6,0]	
	other vertex=5	149	1	}	1
144 topo 20th dp (5, GO), 16,04,149)	water=5	149	16,04	[6,0]	
		31,59	780.04	[202]	tung
	A I I Cope of the	67	/sloia/	50/0/51	,
	wan=1	49	16,0,5,14	[6,0,5,1]	thue
12 topo both dus (2,16,0,5,17,76,0,5,19,14)	vertex=2	44	16,0,5,14	[6,0,5,1]	
	.,	726	16,0,5,1,24	[6,0,5,1,2]	thue
AUG. 2900-1004-04/1(3,16,0,5,1,21,76,095,1,24,74)	WHERE 3	24	16,0,5,1,24	[6,0,5,1,2]	
		501	16,0,5,1,2,3	[6,0,5,1,2,3]	thus
1204. 4970- 1501L-0416 (4,16,10,15,13),76,0,5,1,2,37,74)	weter=4	34	16,0,511,2,34	[6,0,5,1,2,3]	
		14	46,05,112,3,44	[6,0,5,1,2,3,4]	true
1204, topo- 2004 des (4,66,0,5,1,2,3,4,16,0,5,1,2,3,47,74)	week=4	770	16,019,11,2,3,44	[6,5,1,2,3,4]	
		14	16,0,5,1,2,3,4,24	(6,0,5,1,2,3,4,2)	true
- if the openal is not a do 126, the returned value will be face and the algorithm will coholder the sorted tixt empty	e will be false and	the algorith		topological order	

				11	11					1421	4 1 3			
8100x- list =[6,0,5,4,2,3,4,7]	pour dictionary	1-11-11-11-11-11-11-11-11-11-11-11-11-1	1-1-1-11-11-11-11-11-11	1-1-1-1-1-1-1-1-1-1-	1-1-1-1-1-1-1-1-1-	1-1-1-1-1-1-1-1-1-1-1	5 1-1-1-1-1-1-1-1-	5 1-1-1-1-1-1	115 5 -1 -1 -1 -1 5	115 5 -11-1-1-1	1 5 5 2 -1 -1 1	15521-1-11	-155231-111	
Highest. cost path: sell-apaphrinell-current]. highest-post-path (5,4); topological-order-list=(6,0,5)+2)	dist dictionally and	1-00-00-00-00-00-10-10-10-10-10-10-10-10	4 9 4 00-00-00-00-00-00-	00-00-00-00-00-00-00-	0-10-10-10-10-10-00-0-	0- 0- 00- 00- 00- 00- 00- 00-	11 (2-10-10-10-10-10-10-10-10-1	11 8- 80- 00-0100-00-	1) \omega	1-0 6 10 -0 -0 0 -0 82	78 00- 0 00- DO1 07 9 00-	1-0 6 10 101-0 0 -0 82	-ω 6 10 10st 126 0 1-m 821	
applied ewount? highest	worter other-vertex		0	-	7	7	7	7	1	7	2 3	**	3 4	
Highest. Lest path: sell - of		inttialisation	ikration 1			ilerations	Weration 3	9		uteration h	station 5		itorations	5

The highest post path from vertex 5 to vertex 4 has the cost: dist[4]=126 and it is built backwards from the After iteration 6 we stop execuse vertex = 4 = vertex_end = , dist[4]=126

vertex_end=4, freus(4)=3, preus(3)=2, preus(2)=5=1 path: 5-10 95>3-21>4 ver dictionary.