Lowest cost path between s and t using Dijhstra's Algorithm

relaxation

(1)	Tom	1 to	- 3		
3		•	Å		
1		2 5			/2
	/6	1	~		_
		12	6	4)
	2				
		7		3	
		(0		

	0	. •				
•	D=1, t=3	£	g	cost: dictionary	9: priority gueur	prev: dictionary
	initialization			0 4 2 3 4 5	← 10,1) ←	0 1 2 3 4 5
	ileration 1	1	4	0 1 2 3 4 5	€ [2,4) [6,5) ←	0 1 2 3 4 5
	iteration 2	4	5	0 1 2 3 4 5	(4,5) (6,5) ←	012345
•	iteration 3	5	0	0 1 2 3 4 5	< \[6,3) 16, \(\mathbb{D}\) 10,0) €	012345
	iteration 4	3		0 1 2 3 4 5	+ (C,5) (10,0) +	0 1 2 3 4 5

The minimum cost walk from s=1 to t=3 is built backwards from prev t=3, prev [3]= 5, prov [5]= 4, prov [4]= 1= δ $1 \rightarrow 4 \rightarrow 5 \rightarrow 3$, cost [3]= δ

o From 4 to	7	
34	7	
(3) 5	2 5)
\mathcal{I}	3 10 13 16 2	7.5
(2)	4	- 0
2	1	15
8	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(6)

b=9, t=7	£	b	cost: dictionary	g: priority gueve	Prev: dictionary
initialization			011231457617890	← 10,4) ←	0123456789
iteration 1	Ļ	5	0 1 2 3 4 5 6 7 8 9	< [(1 0,5)] ←	011213141716171819
iteration 2	L 5		012345761789	÷ ,	0 1 2 2 4 5 6 7 8 9

Sience the gueene is empty, we con't compute the cost brom 400, because there is no path