



The graph: 0 3 4 1

0 4 24  
1 4 43  
1 3 13  
4 0 36

2 1 10  
4 1 96  
0 2 59  
0 1 83  
4 2 35

$S = 0, t = 1$

Inbound: [0]: 4  
[1]: 2, 4, 0  
[2]: 0, 4  
[3]: 0, 1  
[4]: 0, 1

Outbound: [0]: 3, 4, 2, 1  
[1]: 4, 3  
[2]: 1  
[3]:  
[4]: 0, 1, 2

	dist	pred	path																				
Initialization	<table><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>0</td><td>∞</td><td>∞</td><td>∞</td><td>∞</td></tr></table>	0	1	2	3	4	0	∞	∞	∞	∞		→										
0	1	2	3	4																			
0	∞	∞	∞	∞																			
i=0 iteration 1	<table><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>0</td><td>83</td><td>59</td><td>41</td><td>24</td></tr></table>	0	1	2	3	4	0	83	59	41	24	<table><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr></table>	0	1	2	3	4		0	0	0	0	
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iteration 2	<table><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>0</td><td>83</td><td>59</td><td>41</td><td>24</td></tr></table>	0	1	2	3	4	0	83	59	41	24	<table><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td></td><td>0</td><td>0</td><td>0</td><td>0</td></tr></table>	0	1	2	3	4		0	0	0	0	
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0	69	59	41	24																			
0	1	2	3	4																			
	2	0	0	0																			
iteration 4	-  -	-  -																					
iteration 5	-  -	-  -																					
i=1, iteration 1	-  -	-  -																					
iteration 2	-  -	-  -																					
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→ path = []

path = [0, 2, 1], cost = 69 = the minimum cost

$t=1$ , prev[1] = 2, prev[2] = 0 = 1

walk:  $0 \xrightarrow{59} 2 \xrightarrow{10} 1$