

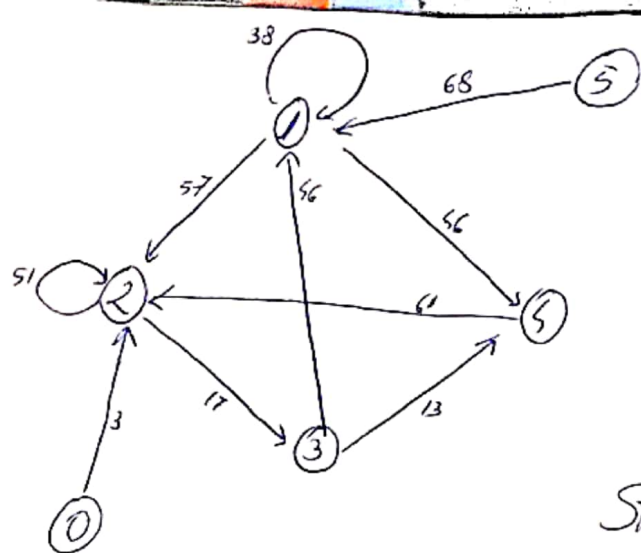
Edges: (0, 1, 2)
 (0, 2, 5)
 (1, 2, 1)
 (1, 3, 7)
 (2, 3, 3)
 (2, 4, 5)
 (3, 4, 1)
 (3, 0, 3)
 (4, 1, 2)
 (4, 0, 6)

Starting vertex = 0 End vertex = 4

Step	distance {}	if	previous {}	changed	path []
0	0:0, 1:∞, 2:∞ 3:∞, 4:∞				
1	0:0, 1:2, 2:∞ 3:∞, 4:∞	$d[1] > d[0] + 2$ T	1:0	F	
		$d[2] > d[0] + 5$ T	2:0	T	
	0:0, 1:2, 2:4 3:∞, 4:∞	$d[2] > d[1] + 1$ T	3:1		
		$d[3] > d[1] + 7$ T	4:3		
	0:0, 1:2, 2:3 3:∞, 4:∞	$d[3] > d[2] + 3$ T			
		$d[4] > d[3] + 1$ T			
2	0:0, 1:2, 2:3 3:9, 4:∞	$d[0] > d[3] + 3$ F			
		$d[1] > d[4] + 2$ F			
	0:0, 1:2, 2:3 3:6, 4:7	$d[0] > d[4] + 6$ F			
		$d[1] > d[0] + 2$ F		F	[4]
		$d[2] > d[0] + 5$ F			[4, 3]
		$d[2] > d[1] + 1$ F			[4, 3, 2]
		$d[3] > d[1] + 7$ F			[4, 3, 2, 1]
		$d[3] > d[2] + 3$ F			[4, 3, 2, 1, 0]
		$d[4] > d[3] + 1$ F			[0, 1, 2, 3, 4]
		$d[0] > d[3] + 3$ F			
		$d[1] > d[4] + 2$ F			
		$d[0] > d[4] + 6$ F			

Because in the second iteration nothing was changed, we break the for loop. The end value can be found in the previous dictionary {1:0, 2:1, 3:2, 4:3} so we can compute the path: [0, 1, 2, 3, 4]

The walk has cost $\text{distance}[4] = 7$.



Edges: (1, 1, 38)
 (1, 2, 57)
 (0, 2, 3)
 (2, 2, 51)
 (2, 3, 17)
 (3, 1, 46)
 (3, 4, 13)
 (4, 2, 61)
 (5, 1, 68)

Starting vertex = 1
 End vertex = 0

Step	distance {}	if	previous {}	changed	path []
0	0:00, 1:0, 2:00 3:00, 4:00, 5:00				
1	0:00, 1:0, 2:57 3:00, 4:00, 5:00	$d[1] > d[1] + 38$ F $d[2] > d[1] + 57$ T	2:1 5:1	F	
	0:00, 1:0, 2:57 3:00, 4:46, 5:00	$d[2] > d[0] + 3$ F $d[2] > d[2] + 51$ F	3:2	T	
	0:00, 1:0, 2:57 3:74, 4:46, 5:00	$d[4] > d[1] + 46$ T $d[3] > d[2] + 17$ T			
		$d[1] > d[3] + 46$ F $d[4] > d[3] + 13$ F $d[2] > d[4] + 61$ F $d[1] > d[5] + 68$ F			
2		$d[1] > d[1] + 38$ F $d[2] > d[1] + 57$ F $d[2] > d[0] + 3$ F $d[2] > d[2] + 51$ F $d[4] > d[1] + 46$ F $d[3] > d[2] + 17$ F $d[1] > d[3] + 46$ F $d[4] > d[3] + 13$ F $d[2] > d[4] + 61$ F $d[1] > d[5] + 68$ F		F	

There was no change in the second iteration, so we break the for loop. Because the end vertex is not found in the previous dictionary {2:1, 3:2, 5:1}, we return None. Therefore the end vertex is not reachable from the start vertex.