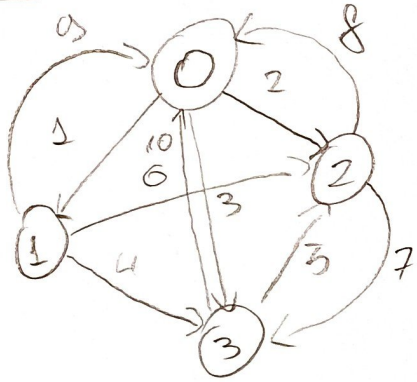


# LAB 3 - PATH DOES NOT EXIST

## Backwards Dijkstra



4

dict.in {  
 0: [2, 2, 3]  
 1: [0]  
 2: [0, 1, 3]  
 3: [0, 2]  
 4: []

s=1	t=4	x	y	dist: dictionary	pq: Priority queue	next: dictionary
init				<div style="border: 1px solid black; display: inline-block; padding: 2px;"> <div style="text-align: right; margin-right: 5px;">4</div> <div style="border-left: 1px solid black; height: 15px; width: 100px;"></div> </div>	[ (4, 0) ]	
iter 1	4		[ ]		[ ]	

The node 4 does not have any neighbors, therefore after one iteration the queue will be empty and the algorithm will finish.