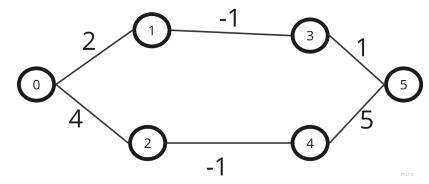
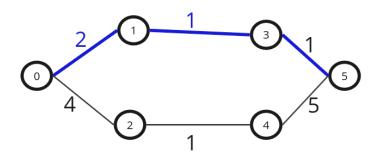
Example #1:

n=6 source=0 destination=5 target=15 [[0,1,2],[0,2,4],[1,3,-1],[2,4,-1],[3,5,1],[4,5,5]]



compute the shortest path with all -1 weights which are set to 1 (the minimum possible weight).:



d0: array of distances with all -1 weights which are set to 1:

0	2	4	3	5	4	
0	1	2	3	4	5	

shorest path=4, difference to target=15-4=11

d1: array of distances while adjustement (not used yet)

0	+∞	+∞	+∞	+∞	+∞
0	1	2	3	4	5 miro

adjust the -1-weighted edges:

after running Dijkstra on node 0, d1 will be:

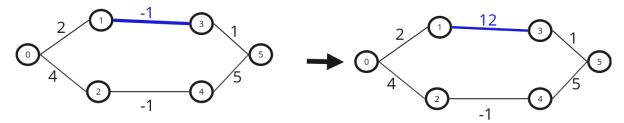
d1: array of distances while adjustement

0	2	4	+∞	+∞	+∞
0	1	2	3	4	5 miro

new wheight of edge(1,3):

=difference+d0[3]-d1[1]

=11+3-2=12



miro

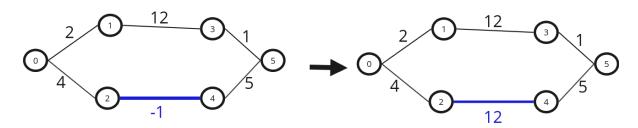
d1: array of distances while adjustement

0	2	4	14	+∞	+∞
0	1	2	3	4	5

new wheight of edge(2,4):

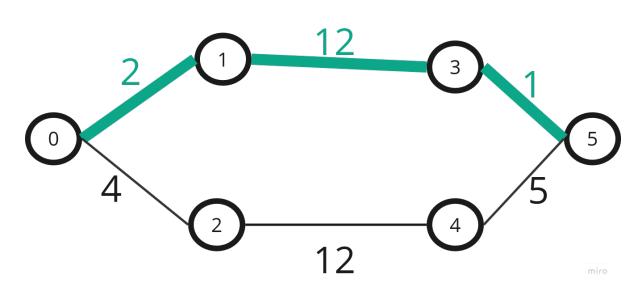
=difference+d0[4]-d1[2]

=11+5-4=12



d1: array of distances while adjustement

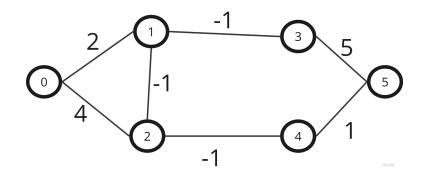
di: a	rray of dis		+				
0	2	4	14	16	(15)c	- tonger	
0	1	2	3	4	5	U	miro



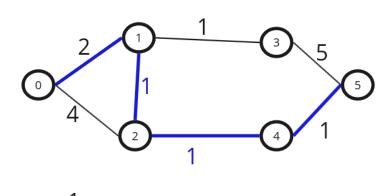


Example #2:

n=6 source=0 destination=5 target=15 [[0,1,2],[1,2,-1],[0,2,4],[1,3,-1],[2,4,-1],[3,5,5],[4,5,1]]



compute the shortest path with all -1 weights which are set to 1 (the minimum possible weight).:



d0: array of distances with all -1 weights which are set to 1:

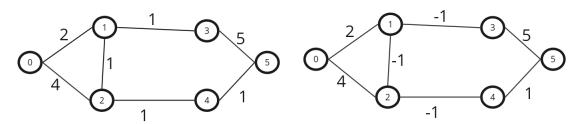
0	2	3	3	4	5
0	1	2	3	4	5

shorest path=5, difference to target=15-5=10

d1: array of distances while adjustement (not used yet)

0	+∞	+∞	+∞	+∞	+∞
0	1	2	3	4	5 miro

adjust the -1-weighted edges:



after running Dijkstra on node 0, d1 will be:

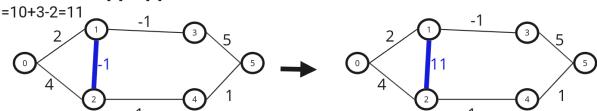
d1: array of distances while adjustement

-			-			
0	2	3	+∞	+∞	+∞	
0	1	2	3	4	5 ^{miro}	



new wheight of the edge(1,2)

=difference+d0[2]-d1[1]



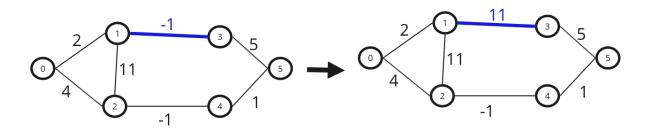
d1: array of distances while adjustement

0	2	4	+∞	+∞	+∞
0	1	2	3	4	5

new wheight of the edge(1,3)

=difference+d0[3]-d1[1]

=10+3-2=11



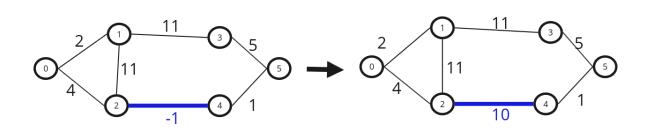
d1: array of distances while adjustement

0	2	4	13	+∞	+∞
0	1	2	3	4	5

new wheight of the edge(2,4)

=difference+d0[4]-d1[2]

=10+4-4=10



d1: array	of distanc	es while a	djustemer	nt		storget	
0	2	4	13	14		3 Charles	
0	1	2	3	4	5		miro

