

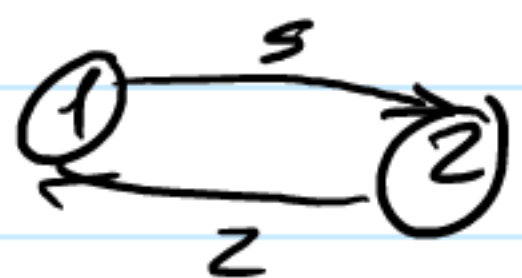
#1 test case

$$\sum_{u \neq 0} d(0, u) = 0 \rightarrow 1 + 0 \rightarrow 2 = 0 \rightarrow 1 + (0 \rightarrow 1 + 1 \rightarrow 2) = 35 + 35 + 5 = 75$$

$$\sum_{u \neq 1} d(1, u) = 1 \rightarrow 0 + 1 \rightarrow 2 = (1 \rightarrow 2 + 2 \rightarrow 0) + 1 \rightarrow 2 = 6 + 5 = 11$$

$$\sum_{u \neq 2} d(2, u) = 2 \rightarrow 1 + 2 \rightarrow 0 = 2 + 1 = 3$$

$$\text{tower 0 costs} = 75 + 11 + 3 = 89$$

then  tower 1 costs = 5 + 2 = 7

$$\Rightarrow \text{tower 2 costs} = 0$$

$$\text{FINAL COST} = 89 + 7 + 0 = 96$$

We have to iterate over given ordered towers, run dijkstra between all pairs, sum costs, then delete tower from graph (just add it to a list and ignore it in next iterations)

We got an adjacency matrix as input

\Rightarrow trivial dijkstra impl + all-pairs \Rightarrow Floyd ($O(n^3)$)