4

from touk 2,

There are N places (vertex)
There are n monds (edges)
Time complexity: 0 (M logN)

top tack 3.

We need more memory for tack 3

than tack 2. But the time complex city
is same. number of places visited
in shortest path = p

time complexity = 0 (P)
Dijkston time complexity = 0 (M LogN)
-, Total time complexity = 0 (M LogN +P)

if the number of titans in every mond is exactly 1, then we can find the shortest path using BFS. It is a O(M+N) algorithm. This algorithm gives us the least needed monds.