LAB 4 Task 3

The time complexity for problem 1 and Problem 2 is O ((M+H) log_M)

If the number of titans in each road is exactly I, then we can solve this problem using BFS mothod. It titans is exactly I in each road, it would not work as weighted graph.

BFS proendocode;

create queue Q V -> visited Put v into Q

while Q is not-empty!

remove head u of Q

mark and enqueue all (unvirited)

neighborn of u.