2024

Vipul Dessai

[Awesome Compony]

2/24/2024

DSA - Graphs

A diagram of a network

Description automatically generated

Contents

[1. Cheapest flights within K stops 2](#_Toc159757876)

# Cheapest flights within K stops

## Intuition

1. Create a distance array with distance[src] = 0
2. First loop till only the max stops k
3. Create a new currentDistance array to keep track of distance to reach the next “To” node
4. Loop over all the flights
5. For all the distance without the infinity value, calculate the currentDistance to “To” node
   1. Using minimum of cur[To] or (distance[from] + from node to next node cost)

## Complexity

TC - O(v \* e)

SC – O(v \* e)