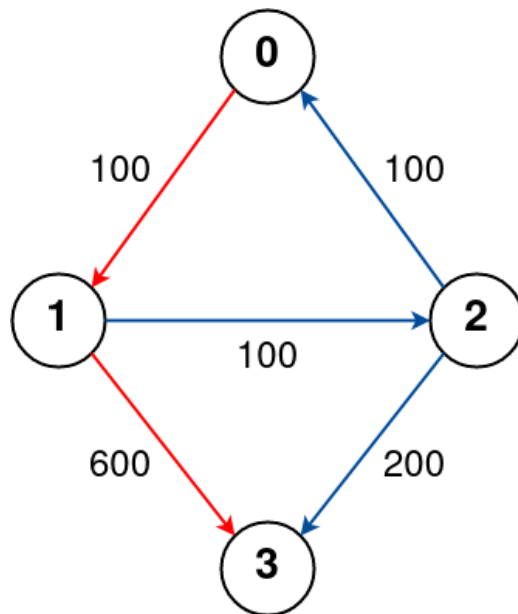


Cheapest Flights Within K Stops [LeetCode](#)

There are n cities connected by some number of flights. You are given an array `flights` where `flights[i] = [from i , to i , price i]` indicates that there is a flight from city `from i` to city `to i` with cost `price i` .

You are also given three integers `src`, `dst`, and `k`, return **the cheapest price** from `src` to `dst` with at most `k` stops. If there is no such route, return -1.

Example:



Source = 0, Destination = 3, $k = 1$

Output: 700

Approach 1: Function to find the cheapest price from source to destination with at most k stops

- **Explanation:**
 - The **findCheapestPrice** function constructs an adjacency list representing flights and initializes a vector to store the cost of reaching each node from the source.
 - It uses a BFS traversal with a queue to explore possible flights, updating the cost if a cheaper path is found.
 - The traversal stops when the destination is reached with at most k stops, and the cost of reaching the destination is returned.
 - If the destination is unreachable, the function returns -1.
- **Time Complexity:**

- The time complexity is $O(V + E)$, where V is the number of vertices (nodes) and E is the number of edges (flights).
 - Both the creation of the adjacency list and BFS traversal contribute to the time complexity.
- Space Complexity:
 - The space complexity is $O(V + E)$, where V is the number of vertices (nodes) and E is the number of edges (flights).
 - The adjacency list, cost vector, and the BFS queue contribute to space usage.