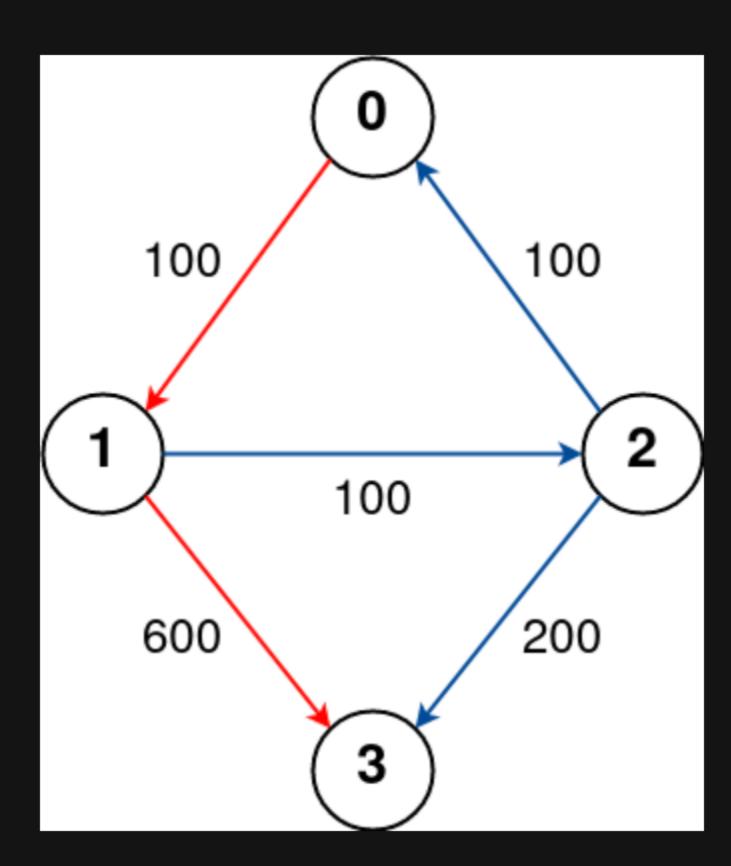
787. Cheapest Flights Within K Stops

Description

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 $[from_i]$ to city $[from_i]$ to city $[from_i]$ with cost $[from_i]$.

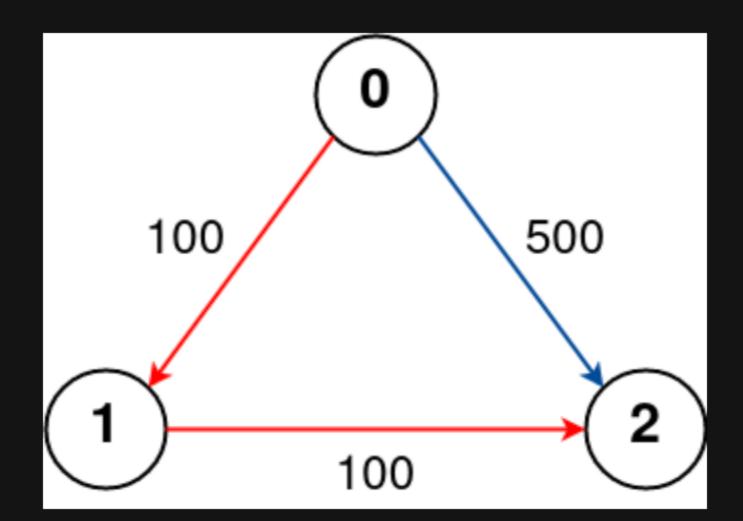
You are also given three integers <code>src</code>, <code>dst</code>, and <code>k</code>, return the cheapest price from <code>src</code> to <code>dst</code> with at most <code>k</code> stops. If there is no such route, return <code>-1</code>.

Example 1:



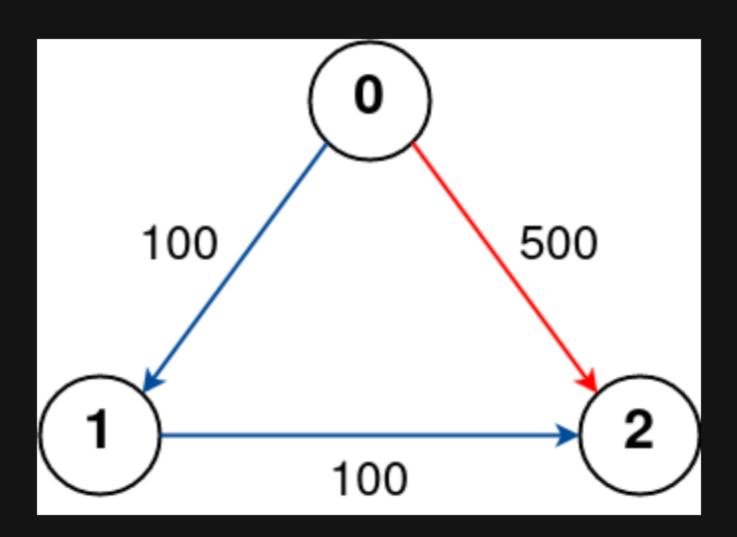
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Input: n = 4, flights = [[0,1,100],[1,2,100],[2,0,100],[1,3,600],[2,3,200]], src = 0, dst = 3, k = 1
Output: 700
Explanation:
The graph is shown above.
The optimal path with at most 1 stop from city 0 to 3 is marked in red and has cost 100 + 600 = 700.
Note that the path through cities [0,1,2,3] is cheaper but is invalid because it uses 2 stops.
```

Example 2:



```
Input: n = 3, flights = [[0,1,100],[1,2,100],[0,2,500]], src = 0, dst = 2, k = 1
Output: 200
Explanation:
The graph is shown above.
The optimal path with at most 1 stop from city 0 to 2 is marked in red and has cost 100 + 100 = 200.
```

Example 3:



```
Input: n = 3, flights = [[0,1,100],[1,2,100],[0,2,500]], src = 0, dst = 2, k = 0
Output: 500
Explanation:
The graph is shown above.
The optimal path with no stops from city 0 to 2 is marked in red and has cost 500.
```

Constraints:

- 1 <= n <= 100
- 0 <= flights.length <= (n * (n 1) / 2)
- flights[i].length == 3
- $\emptyset \leftarrow \text{from } i, \text{ to } i \leftarrow n$
- from i != to i
- 1 <= price i <= 10 4
- There will not be any multiple flights between two cities.
- 0 <= src, dst, k < n
- src != dst