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[Awesome Compony]

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DSA - Graphs

A diagram of a network

Description automatically generated

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# [Cheapest flights within K stops](https://leetcode.com/problems/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)

## Algorithms

Bellman ford

# [Island perimeter](https://leetcode.com/problems/island-perimeter/)

## Intuition

1. Iterative
   1. For every land add +4 for perimeter
   2. Now subtract -2 if
      1. if there is land just above the current land
      2. if there is land to the left side of the current land

## Complexity

TC - O(n \* m)

SC – O(1)

## [Solution](https://leetcode.com/problems/island-perimeter/solutions/5041802/simple-iterative-solution-explaination)