#### **Problem statement**

#### Link:

https://www.geeksforgeeks.org/problems/minimal-cost/1?utm\_source=youtube&utm\_medium=collab\_striver\_ytdescription&utm\_campaign=minimal-cost

There are n stones and an array of heights and Geek is standing at stone 1 and can jump to one of the following: Stone i+1, i+2, ... i+k stone and cost will be [hi-hj] is incurred, where j is the stone to land on. Find the minimum possible total cost incurred before the Geek reaches Stone N.

# Example 1:

Input:

n = 5, k = 3

heights = {10, 30, 40, 50, 20}

Output:

30

Explanation:

Geek will follow the path 1->2->5, the total cost would be | 10-30| + |30-20| = 30, which is minimum

# Example 2:

Input:

n = 3, k = 1

heights =  $\{10,20,10\}$ 

Output:

20

Explanation:

Geek will follow the path 1->2->3, the total cost

would be |10 - 20| + |20 - 10| = 20.

Your Task:

You don't need to read input or print anything. Your task is to complete the function minimizeCost() which takes the array height, and integer n, and integer k and returns the minimum energy that is lost.

Expected Time Complexity: O(n\*k)
Expected Space Complexity: O(n)

### **Constraint:**

```
2 <= n <= 10<sup>5</sup>
1 <= k <= 100
1 <= heights[i] <= 10<sup>4</sup>
```