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 <= 105

1 <= k <= 100

1 <= heights[i] <= 104