

Minimize the Heights II □

Difficulty: Medium

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Accuracy: 15.06%

Submissions: 649K+

Points: 4

Given an array arr[] denoting heights of N towers and a positive integer K.

For each tower, you must perform exactly one of the following operations exactly once.

- Increase the height of the tower by K
- Decrease the height of the tower by K

Note: It is compulsory to increase or decrease the height by K for each tower. After the operation, the resultant array should **not** contain any **negative integers**.

Input: k = 2, $arr[] = \{1, 5, 8, 10\}$

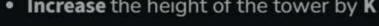
Output: 5

Explanation: The array can be modified as $\{1+k, 5-k, 8-k, 10-k\} = \{3, 3, 6, 6, 6, 6, 10-k\}$

2) The difference between the largest and the smallest is 2-3 = 5

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Find out the minimum possible difference between the height of the shortest and tallest towers after you have modified each tower.

You can find a slight modification of the problem here.

Examples:



