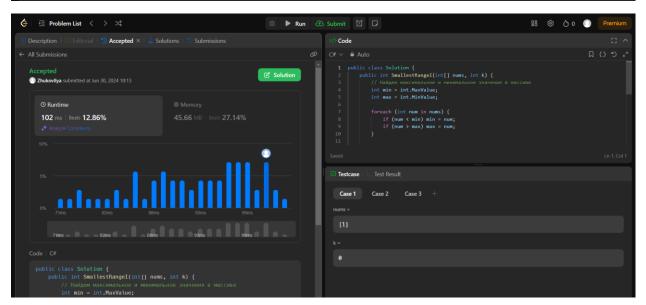
```
■ Description | □ Editorial | つ Accepted × | ■ Solutions | つ Submissions
908. Smallest Range I
                                                                                        Solved ©
You are given an integer array nums and an integer k.
In one operation, you can choose any index i where 0 \le i \le nums.length and change nums[i] to nums[i] +
x where x is an integer from the range [-k, k]. You can apply this operation at most once for each index i.
The score of nums is the difference between the maximum and minimum elements in nums.
Return the minimum score of nums after applying the mentioned operation at most once for each index in it.
Example 1:
  Input: nums = [1], k = 0
  Output: 0
  Explanation: The score is max(nums) - min(nums) = 1 - 1 = 0.
Example 2:
  Input: nums = [0,10], k = 2
  Output: 6
  Explanation: Change nums to be [2, 8]. The score is max(nums) - min(nums) = 8 - 2
Example 3:
```



```
public class Solution
{
    public int SmallestRangeI(int[] nums, int k)
    {
        // Найдем максимальное и минимальное значения в массиве
```

int min = int.MaxValue;

Код:

```
int max = int.MinValue;

foreach (int num in nums)
{
    if (num < min) min = num;
    if (num > max) max = num;
}

// Вычислим новую разницу
int newMin = min + k;
int newMax = max - k;

// Если newMin больше или равен newMax, то разница будет 0
if (newMin >= newMax)
{
    return 0;
}

// Иначе возвращаем разницу
return newMax - newMin;
}
```