Smallest Range I

Easy

Given an array A of integers, for each integer A[i] we may choose any x with $-K \le x \le K$, and add x to A[i].

After this process, we have some array B.

Return the smallest possible difference between the maximum value of $\ensuremath{\mathtt{B}}$ and the minimum value of $\ensuremath{\mathtt{B}}$.

Example 1:

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Input: A = [1], K = 0
Output: 0
Explanation: B = [1]
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Example 2:

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Input: A = [0,10], K = 2
Output: 6
Explanation: B = [2,8]
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Example 3:

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Input: A = [1,3,6], K = 3
Output: 0
Explanation: B = [3,3,3] or B = [4,4,4]
```

Note:

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1. 1 <= A.length <= 10000
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$$2. \quad 0 \iff A[i] \iff 10000$$

 $3. \quad 0 \le K \le 10000$