In the universe Earth C-137, Rick discovered a special form of magnetic force between two balls if they are put in his new invented basket. Rick has n empty baskets, the ith basket is at position[i], Morty has m balls and needs to distribute the balls into the baskets such that the **minimum magnetic force** between any two balls is **maximum**.

Rick stated that magnetic force between two different balls at positions x and y is |x - y|.

Given the integer array position and the integer m. Return *the required force*.

**Example 1:**

Diagram

Description automatically generated

**Input:** position = [1,2,3,4,7], m = 3

**Output:** 3

**Explanation:** Distributing the 3 balls into baskets 1, 4 and 7 will make the magnetic force between ball pairs [3, 3, 6]. The minimum magnetic force is 3. We cannot achieve a larger minimum magnetic force than 3.

**Example 2:**

**Input:** position = [5,4,3,2,1,1000000000], m = 2

**Output:** 999999999

**Explanation:** We can use baskets 1 and 1000000000.

**Constraints:**

* n == position.length
* 2 <= n <= 105
* 1 <= position[i] <= 109
* All integers in position are **distinct**.
* 2 <= m <= position.length