5489. Magnetic Force Between Two Balls

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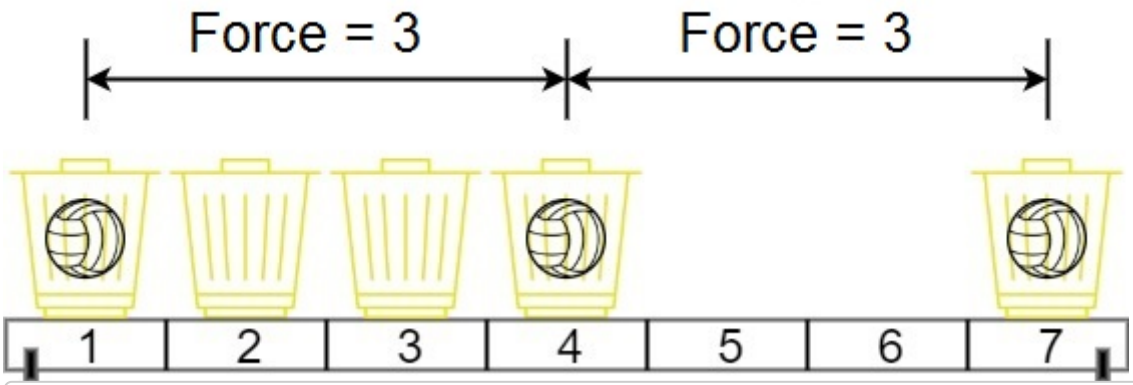
In universe Earth C-137, Rick discovered a special form of magnetic force between two balls if they are put in his new invented basket. Rick has `n` empty baskets, the `i`th basket is at `position[i]`, Morty has `m` balls and needs to distribute the balls into the baskets such that the **minimum magnetic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

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:




```
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
```

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 <= 10^5`
- `1 <= position[i] <= 10^9`

- All integers in `position` are **distinct**.
- `2 <= m <= position.length`

JavaScript

```
/**
 * @param {number[]} position
 * @param {number} m
 * @return {number}
 */
var maxDistance = function(position, m) {

};
```

Custom Testcase Use Example Testcases

Run Submit