## 6271. Maximum Tastiness of Candy Basket

My Submissions (/contest/weekly-contest-325/problems/maximum-tastiness-of-candy-basket/submissions/) Back to Contest (/contest/weekly-contest-325/) You are given an array of positive integers price where price[i] denotes the price of the ith candy and a positive User Accepted: 0 integer k. User Tried: 0 The store sells baskets of k distinct candies. The tastiness of a candy basket is the smallest absolute difference of the prices of any two candies in the basket. Total Accepted: 0 Return the maximum tastiness of a candy basket. **Total Submissions:** 0 Difficulty: Medium Example 1:

Input: price = [13,5,1,8,21,2], k = 3
Output: 8
Explanation: Choose the candies with the prices [13,5,21].
The tastiness of the candy basket is: min(|13 - 5|, |13 - 21|, |5 - 21|) = min(8, 8, 16) = 8.
It can be proven that 8 is the maximum tastiness that can be achieved.

## Example 2:

```
Input: price = [1,3,1], k = 2

Output: 2

Explanation: Choose the candies with the prices [1,3].

The tastiness of the candy basket is: min(|1-3|) = min(2) = 2.

It can be proven that 2 is the maximum tastiness that can be achieved.
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## Example 3:

```
Input: price = [7,7,7,7], k = 2
Output: 0
Explanation: Choosing any two distinct candies from the candies we have will result in a tastiness of 0.
```

## Constraints:

- 1 <= price.length <=  $10^5$
- 1 <= price[i] <= 10<sup>9</sup>
- 2 <= k <= price.length

JavaScript ψ æ let a, k, n; 1 const maximumTastiness = (price, K) => { 3 a = price, k = K, n = a.length;  $a.sort((x, y) \Rightarrow x - y);$ 4 let max = Math.max(a[n - 1] - a[0]); 5 6 return BinarySearch(0, max) 7 }; 8 9 v const BinarySearch = (low, high) ⇒ { 10 • while (low <= high) { let mid = low + parseInt((high - low) / 2); 11 12 ▼ if (possible(mid)) { 13 low = mid + 1;14 ▼ } else { high = mid - 1;15 16 } 17 return high; 18 19 }; 20 21 ▼ const possible = (diff) => { 22 let pick = 0, cur = Number.MIN\_SAFE\_INTEGER; 23 • for (const x of a) { 24 🔻 if  $(x - diff >= cur) {$ 

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                                                                  Maximum Tastiness of Candy Basket - LeetCode Contest
   25
                       cur = x;
   26
                       pick++;
   27
   28
             }
   29
             return pick >= k;
   30
        };
  ☐ Custom Testcase
                          Use Example Testcases
                                                                                                                                      Run
                                                                                                                                                 △ Submit
  Submission Result: Accepted (/submissions/detail/865081932/) ?
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