# 3075. Maximize Happiness of Selected Children

Solved

Medium Topics Companies 7 Hint

You are given an array happiness of length n, and a **positive** integer k.

There are n children standing in a queue, where the ith child has **happiness value** happiness[i]. You want to select k children from these n children in k turns.

In each turn, when you select a child, the **happiness value** of all the children that have **not** been selected till now decreases by 1. Note that the happiness value **cannot** become negative and gets decremented **only** if it is positive.

Return the **maximum** sum of the happiness values of the selected children you can achieve by selecting k children.

## Example 1:

**Input:** happiness = [1,2,3], k = 2

Output: 4

Explanation: We can pick 2 children in the following way:

- Pick the child with the happiness value == 3. The happiness value of the remaining children becomes [0,1].
- Pick the child with the happiness value == 1. The happiness value of the remaining child becomes [0]. Note that the happiness value cannot become less than 0.

The sum of the happiness values of the selected children is 3 + 1 = 4.

### Example 2:

**Input:** happiness = [1,1,1,1], k = 2

Output: 1

**Explanation:** We can pick 2 children in the following way:

- Pick any child with the happiness value == 1. The happiness value of the remaining children becomes [0,0,0].
- Pick the child with the happiness value == 0. The happiness value of the remaining child becomes [0,0].

The sum of the happiness values of the selected children is 1 + 0 = 1.

# Example 3:

**Input:** happiness = [2,3,4,5], k = 1

Output: 5

**Explanation:** We can pick 1 child in the following way:

- Pick the child with the happiness value == 5. The happiness value of the remaining children becomes [1,2,3].

The sum of the happiness values of the selected children is 5.

#### **Constraints:**

- 1 <= n == happiness.length <= 2 \* 10<sup>5</sup>
- 1 <= happiness[i] <= 10<sup>8</sup>
- 1 <= k <= n

Seen this question in a real interview before? 1/5

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