1833. Maximum Ice Cream Bars

Description

It is a sweltering summer day, and a boy wants to buy some ice cream bars.

At the store, there are `n` ice cream bars. You are given an array `costs` of length `n`, where `costs[i]` is the price of the `i th` ice cream bar in coins. The boy initially has `coins` coins to spend, and he wants to buy as many ice cream bars as possible.

Note: The boy can buy the ice cream bars in any order.

Return *the* ***maximum*** *number of ice cream bars the boy can buy with* `coins` *coins.*

You must solve the problem by counting sort.

Example 1:

```
Input: costs = [1,3,2,4,1], coins = 7
Output: 4
Explanation: The boy can buy ice cream bars at indices 0,1,2,4 for a total price of 1 + 3 + 2 + 1 = 7.
```

Example 2:

```
Input: costs = [10,6,8,7,7,8], coins = 5
Output: 0
Explanation: The boy cannot afford any of the ice cream bars.
```

Example 3:

```
Input: costs = [1,6,3,1,2,5], coins = 20
Output: 6
Explanation: The boy can buy all the ice cream bars for a total price of 1 + 6 + 3 + 1 + 2 + 5 = 18.
```

Constraints:

- `costs.length == n`
- `1 <= n <= 10 5`
- `1 <= costs[i] <= 10 5`
- `1 <= coins <= 10 8`