

# 1231. Divide Chocolate

## Description

You have one chocolate bar that consists of some chunks. Each chunk has its own sweetness given by the array `sweetness`.

You want to share the chocolate with your `k` friends so you start cutting the chocolate bar into `k + 1` pieces using `k` cuts, each piece consists of some **consecutive** chunks.

Being generous, you will eat the piece with the **minimum total sweetness** and give the other pieces to your friends.

Find the **maximum total sweetness** of the piece you can get by cutting the chocolate bar optimally.

### Example 1:

**Input:** `sweetness = [1,2,3,4,5,6,7,8,9]`, `k = 5`

**Output:** 6

**Explanation:** You can divide the chocolate to `[1,2,3]`, `[4,5]`, `[6]`, `[7]`, `[8]`, `[9]`

### Example 2:

**Input:** `sweetness = [5,6,7,8,9,1,2,3,4]`, `k = 8`

**Output:** 1

**Explanation:** There is only one way to cut the bar into 9 pieces.

### Example 3:

**Input:** `sweetness = [1,2,2,1,2,2,1,2,2]`, `k = 2`

**Output:** 5

**Explanation:** You can divide the chocolate to `[1,2,2]`, `[1,2,2]`, `[1,2,2]`

### Constraints:

- `0 <= k < sweetness.length <= 104`
- `1 <= sweetness[i] <= 105`

