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