**Maximum Sum**

Sean is teaching his daughter the concept of negative numbers. He has laid out some flashcards for his daughter that have either a negative or a positive number written on them.

He would like her to find the biggest sum possible by taking a subsequence of the list of numbers and adding them all up together. The order of the numbers must not be changed.

**Input:** The first line of input contains **N**, the number of numbers on the next line. The next line contains **N** space-separated integers. They will consist of negative and positive integers.

**Output:** The maximum sum you can make of a given subsequence.

**Example Input:**

9

-2 1 -3 4 -1 2 1 -5 4

**Example Output:**

6

**Explanation:** The maximum sum you can make is 6 because of the subsequence {4, -1, 2, 1}. When you add those up, you get 6.