

Problem D

Gifts

Time limit: 1 second

Memory: 1024 megabytes

Problem Description

On the occasion of the new year, An – a cute boy with a love for coding decided to buy a gift for each of his two close friends. To do this, An went to a souvenir shop that had many different items. This shop has a total of N different items, each with its own price. The price of the i -th item on the list is a_i (for $i = 1, 2, \dots, N$).

Before deciding to buy gifts, An prepared a certain amount of money, specifically X dollars, to spend on gifts for his two close friends. An's goal is to select two different gifts that have the highest possible total value while ensuring that this total does not exceed the amount of money An has.

To solve this problem, you need to find the amount of money An needs to spend to buy gifts for his friends. This means you need to determine two different items from the list whose total value is the highest while remaining within the budget X .

Input:

- The first line contains two positive integers N and X ($2 \leq N \leq 10^5$ and $2 \leq X \leq 10^9$).
- The second line contains N positive integers a_1, a_2, \dots, a_N (with constraints $1 \leq a_i \leq 10^9$).

Output:

- A positive integer that represents the total amount of money An needs to spend to buy the two gifts.

Example:

INPUT	OUTPUT
6 18 5 3 10 2 4 9	15