

C. Choose Elements

time limit per test: 1 second🕒

memory limit per test: 256 megabytes

input: standard input

output: standard output

You are given an array a of n integers, and an integer k

You can choose **at most** k elements and get their summation.

What is the maximum summation you can get?

Input

The first line contains two integers n and $k(1 \leq k \leq n \leq 10^3)$ the number of elements in the array a and the maximum elements you can choose respectively.

The second line contains n integers $a_i(-10^9 \leq a_i \leq 10^9)$ the elements of the array a .

Output

Output the maximum summation you can get.

Examples

input	Copy
2 2 1 2	
output	Copy
3	

input	Copy
2 1 1 2	
output	Copy
2	

input	Copy
3 3 1 2 3	
output	Copy
6	

Assiut University Training - Newcomers

Public

Participant



→ About Group



[Group website](#)

→ Group Contests

- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math - Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type - Conditions)

Contest #3.1

Finished

Practice



→ About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the [link](#).