## Problem G. The Witchwood

Input file:	standard	input
Output file:	standard	output

Shenyang's night fair culture is developed very well. Every time Bob comes to Shenyang, he will definitely go to a night fair called *The Witchwood*. There are n snack stalls in *The Witchwood*, the *i*th of which gives him  $a_i$  pleasure.

Bob's stomach allows him to eat k snack stalls at most. So Bob wants to know the maximum pleasure he can get after visiting the night market.

## Input

The first line of input contains two integers  $n \ (1 \le n \le 1000)$  and  $k \ (1 \le k \le n)$ , indicating the number of snack stalls and the capacity of Bob's stomach.

The second line of input contains n integers  $a_1, a_2, \ldots, a_n$   $(1 \le a_i \le 10^9)$ , the *i*th of which indicates the pleasure of the *i*th snack stall.

## Output

Print one integer denoting the maximum pleasure Bob can get.

## Example

standard input	standard output	
5 2	19	
9 8 10 2 4		