Recruitment

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	256 megabytes

Primatec is recruiting , there are n candidates for the job and they want to choose the k most rated candidates , the i'th candidate has a_i rating.

Given the rating of the n candidates and the number k , print the total rating of the k chosen candidates for the job .

Input

The first line contains two integers n and k $(1 \leq k \leq n \leq 100000)$.

The second line contains n integers a_i $(1 \leq a_i \leq 100000)$.

Output

Print one integer the answer to the problem .

Example

standard input	standard output
5 3 10 3 10 2 1	23