VM7WC '15 #3 Silver - Test Scores

Time limit: 2.0s **Memory limit:** 64M

After landing a job in a math empire, Mr. White's first task is to grade Massey students' Putnam contests. In total, there are N $(1 \leq N \leq 100\,000)$ contests that require marking, each with a certain score associated with them. Since the contest is so difficult, **it is possible for students to get negative marks**.

Furthermore, Mr. White can only send in up to K $(1 \leq K \leq N)$ of the contests. Help Mr. White find the maximum sum of scores that he can send in.

Input Specification

The first line contains two space-separated integers N and K.

This is followed by N lines, each containing a single integer, describing the contest scores.

Output Specification

Print a single integer, the maximum sum of up to K contest scores. The answer will be guaranteed to fit inside of a 32-bit signed integer.

Sample Input

```
5 2
5
2
7
5
3
```

Sample Output

```
12
```