M. April Fools' Problem (easy)

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input

output: standard output

The marmots have prepared a very easy problem for this year's HC^2 – this one. It involves numbers n, k and a sequence of n positive integers $a_1, a_2, ..., a_n$. They also came up with a beautiful and riveting story for the problem statement. It explains what the input means, what the program should output, and it also reads like a good criminal.

However I, Heidi, will have none of that. As my joke for today, I am removing the story from the statement and replacing it with these two unhelpful paragraphs. Now solve the problem, fools!

Input

The first line of the input contains two space-separated integers n and k ($1 \le k \le n \le 2200$). The second line contains n space-separated integers $a_1, ..., a_n$ ($1 \le a_i \le 10^4$).

Output

Output one number.

Examples

```
input

8 5
1 1 1 1 1 1 1 1

output

5
```

```
input

10 3
16 8 2 4 512 256 32 128 64 1

output

7
```

```
input
5 1
20 10 50 30 46

output
10
```

```
input
6 6
6 6 6 6 6 6
output
36
```

```
input

1 1
100

output

100
```