GlobeX Cup '18 J Sample - Farming Simulator

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

Farmer Yunji owns N farms. Each farm produces X_i dollars per day. Due to tax issues, he has to sell M of his farms. What is the maximum amount of money he can earn per day from his farms, after he sells M of them?

Input Specification

The first line will contain two space-separated integers, N, M $(1 \leq M \leq N \leq 10^5)$, the number of farms, and the number of farms Yunji has to sell, respectively.

The next line will contain N integers, X_i $(1 \leq X_i \leq 10^5)$.

Output Specification

On the first line, output the maximum amount of money Yunji can make per day after selling M of his farms.

Constraints

Subtask 1 [15%]

$M \leq \min(50, N)$

Subtask 2 [85%]

No additional constraints.

Sample Input 1

```
2 1
8 10
```

Sample Output 1

```
10
```

Sample Input 2

```
3 3
29 34 12
```

Sample Output 2

```
0
```