Budget

Time limit: 1.0s **Memory limit:** 256M

WCIPEG 2017-2018 Test

Geresh is applying for a specialized program at a certain high school. In order to be accepted, he must bribe teachers to give him good references. He needs references from N teachers, and each teacher has some price P_i which must be given to the teacher in secret. Fortunately, the right honourable Trustin Judeau has ~~been blackmailed~~ donated to Geresh a limited budget of B dollars.

Geresh wants to find out if he will have enough money to buy all the references he needs.

Input Specification

The first line of input contains the integers N $(1 \leq N \leq 10\,000)$ and B $(0 \leq B \leq 10^6)$. The next N lines contain the integers P_i $(1 \leq P_i \leq 10^6)$.

Output Specification

If Geresh will not have enough money to bribe all the teachers, output `The budget will balance itself`. Otherwise, output the amount of money he will have remaining after bribing each teacher.

Sample Input 1

```
2 10
5
4
```

Sample Output 1

```
1
```

Sample Input 2

```
1 10
1000
```

Sample Output 2

```
The budget will balance itself
```