

Economics Students (a)

Problem Description

N students took a course on economics and $m_1, m_2, m_3, \dots, m_n$ represent marks of students 1 to N. To pass the course, a student needs to score atleast P marks.
Output the pass percentage of course.

Input format

First line containing two integers N and P. Second line contains N integers representing marks of each student.

```
N P
m1 m2 m3.....mn
```

Output format

The answer as described above, correct upto atleast 6 decimal places.

Error Handling

Marks should be in range [0,100], if not, print (without quotes) "INVALID INPUT", ensure that there are no additional spaces and that the text is in **Upper Case**.

Constraints

```
1 <= N <= 1e5
0 <= mi <= 1e9
1 <= P < 100
```

Sample Input 1

```
5 35
10 30 40 60 70
```

Sample Output 2

```
60.000000
```

Sample Input 2

```
5 35
101 30 40 60 70
```

Sample Output 2

INVALID INPUT