

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
 $m_1 m_2 m_3 \dots m_n$

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

$1 \leq N \leq 1e5$
 $0 \leq m_i \leq 1e9$
 $1 \leq P < 100$

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