

Problem A. 79089 a Words

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 256 megabytes

Given string. Print amount of words that starts from the letter 'a'.

Input

Contains string.

Output

Print solution for the problem.

Example

standard input	standard output
a abba abbbba bba	3

Problem B. 79027 Grades

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

Given an array where elements represent scores of students. Find average score of this students.

Input

First line contains n - size of an array($0 \leq n \leq 100$). Then given elements of an array.

Output

Contains double(Print only 2 numbers after floating point).

Example

standard input	standard output
5 1 2 3 4 5	3.00

Problem C. 78973 Cola

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

Given amount of coca-cola bottles that we have. Then n times given amount of students in each classes. Determine whether we can give to each of student at least one bottle of cola.

Input

First line contains a - amount of bottles that we have($0 \leq a \leq 1000$). Second line contains n - amount of classes($0 \leq n \leq 1000$). Then given amount of students in each class.

Output

Print "YES" if we can give to each of student at least one bottle of cola, otherwise print "NO".

Examples

standard input	standard output
100 5 10 5 15 20 30	YES
100 4 25 50 100 200	NO

Problem D. 79069 Palindrome

Input file: **standard input**
Output file: **standard output**
Time limit: **1 second**
Memory limit: **256 megabytes**

Given 2D array. Print "YES" if all diagonals of 2D array is palindrome, otherwise print "NO".

Input

First line contains n - size of nxn 2D array ($1 \leq n \leq 100$, $1 \leq m \leq 100$). Then given elements of 2D array.

Output

Print solution for the problem.

Example

standard input	standard output
4 1 0 0 2 0 1 9 3 0 9 1 3 2 2 3 1	YES

Problem E. 2'nd max

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

Given list of numbers. How much time 2'nd max appears in the list.

Input

First line contains n - ($2 \leq n \leq 30$). Then n times given elements of the list.

Output

Print solution for the problem.

Example

standard input	standard output
4 1 3 3 4	2

Note

For this problem you should use map.

Problem F. 78558 Class statistics

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 256 megabytes

Given n number of students in the class. Then n times given name of the student and his mark. Find how many students have A mark, B mark and C mark if there is no student in the class who have mark less than C.

Input

Input contains $1 \leq n \leq 1000$. Then n times given string name and string mark.

Output

Output contains string mark and integer amount of students who have this mark;

Example

standard input	standard output
3	A 2
Almat A	B 1
Duren A	C 0
Samal B	

Problem G. 78608 Area of triangle

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 256 megabytes

Given sides of triangle. Find area of triangle.

Input

Input contains integers a, b and c .($1 \leq a \leq 1000$, $1 \leq b \leq 1000$, $1 \leq c \leq 1000$)

Output

Output contains double. (print only 2 numbers after floating point)

Example

standard input	standard output
1 3 3	1.48