

Problem A. 77320. Map

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

Kidirkhan bought some fruits for New Year. Help to him with printing name of fruits which he bought more than one time, if there is no such fruits print "NO".

Input

You are given N, then the name of fruits and their prices.

Output

Print sorted name of fruits that he bought more than one , if there is no such fruits print "NO".

Examples

standard input	standard output
5 apple 120 orange 250 apple 200 orange 100 banana 300	apple orange
2 kiwi 350 pear 400	NO

Problem B. 77326.Anagram

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

You are given two strings. Your task is to find out are these two strings anagram. Two strings are considered as anagram if for each letter the number of appearance in the first string is equal to the number of appearance in the second string.

Input

The first line of the input contains a string *S*. The second line of the input contains a string *T*.

Output

Print 'YES' if S and T is anagram otherwise print 'NO'

Examples

standard input	standard output
sdfadsf asdfa	NO
fwef weff	YES

Problem C. 77214. Vector

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

You are given a line. Write a program that find the sum of only digits. Look at the example.

Input

You are given a line.

Output

Print the sum of numbers.

Examples

standard input	standard output
asd1dc5sd21s	9
KBTU	0

Problem D. 77788.Shopping

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

Aida and Aizhan are going to mall to shopping. They want to be unique, so if Aida buys 1 thing Aizhan can't buy it. They buy by turns, first start Aida. You need to print Aida's and Aizhan's purchases.

Input

Given items that Aida and Aizhan want to buy.

Output

First print "Aida" then print her items. Like this repeat with "Aizhan".

Examples

standard input	standard output
t-shirt bluzka kurtka jeans jeans	Aida t-shirt kurtka Aizhan bluzka jeans
noski noski noski kurtka	Aida noski Aizhan kurtka

Problem E. 77160. Delete

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

You are given a line. Write a program that removes all duplicate characters from a string.

Input

Given a line containing characters from an ASCII table. Use getline for reading this string from input.

Output

Print the answer of the given problem.

Example

standard input	standard output
aidaospanova112233	aidospnv123

Note

Write the program by using set.

Problem F. 77348.R

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

You have an integer number N . Find the minimal number of operation to reach 1. You have operations divide by 2(only if divisible), divide by 3(only if divisible), subtract 1.

Input

The first line of the input contains the only number N . ($1 \leq N \leq 100$)

Output

Print the answer.

Examples

standard input	standard output
39	5
59	7
87	6