# Problem A. 77603.Lines

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

You have N lines in the Cartesian coordinate system. Each line is given by the start point and the end point. We consider two lines the same if the length of the two lines is equal. How many unique lines you have?

### Input

In the first line of the input line you are given N — the number of points  $(1 \le N \le 1000)$ . Each of the next N lines contains integers X and Y  $(-1000 \le X, Y \le 1000)$  — coordinates of the start point and integers X1 and Y1  $(-1000 \le X1, Y1 \le 1000)$  — coordinates of the end point.

### Output

Print answer.

standard input	standard output
3	1
1 1 2 2	
0 0 -1 -1	
1 0 0 1	
4	3
1 2 4 2	
2 3 2 2	
1 0 0 1	
1 1 2 2	

# Problem B. 77274.Interview

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

You are given an array and a target number. Your task is to find out are there two elements in the array such that the sum of this two elements equal to the target number.

### Input

The first line of the input contains an integer N ( $1 \le N \le 10^5$ ) the size of the array and an integer number t ( $-10^9 \le N \le 10^9$ ) our target number.

The second line of the input contains N integers  $a_i$  ( $-10^9 \le a_i \le 10^9$ ).

### Output

Print 'YES' if such two elements exist otherwise print 'NO'

## **Examples**

standard input	standard output
4 -10	YES
-20 4 2 10	
3 2	YES
1 2 1	

#### Note

Please pay attention to the restrictions

# Problem C. 77808. Aida and binary numbers

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

Aida loves binary numbers and she loves to play with them. Aida in queue order puts zeros and ones in a row. Aida like Aidar hates ones, but instead of removing, she wants to replace ones to zero. If two ones are located beside then she replaces to 1 zero.

## Input

Given a row of "0" or "1" digits.

# Output

Your task is to find and print the final row.

standard input	standard output
0011100	000100
01100000111101110	00000000010

# Problem D. 77792. Aida and an essay

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

Aida is a "good"girl. She has an essay, and she wants to write it perfectly. She needs to write essay without duplicate (1 word 1 time). Your output must be words that she needs to paraphrase. Note1: "dream,"and "dream"are words. Note: output needs to be unique and in lexicographical order.

# Input

Given sentence (strings that are located in 1 line).

# Output

Print words that she needs to paraphrase.

standard input	standard output
Beka always hates, so I think Beka is	Beka
a bad person, but I never listen to	I
him.	
Why always me? Thinks Aida, after	Why
holidays, when Beka asks her to help	always
him. Why always me?	me?

# Problem E. 77811. Aida and her "knowledge"

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

Aida good at string, but when time goes to STL, she is lost. Task is simple you have an array of vectors with N elements and K – index in vector. Your task is to sort until K – index by increasing order and decreasing order after K – index.

#### Input

In the first line given  $(1 \le n \le 10000)$ , number of her books and  $(1 \le k \le n)$ . index in the vector. Next line contains elements of this array.

### Output

Print the final array after changing.

# **Examples**

standard input	standard output
5 3	1 2 5 5 4
2 1 5 4 5	
10 5	2 3 4 5 1 10 9 8 7 6
5 4 3 2 1 10 9 8 7 6	

#### Note

You don't change element at K position.

# Problem F. 77223. Deque

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

Zhansaya wants to find the sum of first and the last number of her deque. If she tired she shows the character '!', if she wants to add a number to the begin she shows '+', and if she wants to add to the back, shows character '-' and if she shows '\*', you have to find the sum of first and last elements and delete elements. Help her to solve this problem.

#### Input

You are given characters '+' , '-', '!' , '\*' , and numbers.

#### Output

For '\*' query print the answer to the problem. Note that if deque is empty print "error".

standard input	standard output
+ 1	11
- 9	12
+ 2	8
*	2
+ 2	error
- 6	
+ 3	
- 9	
*	
*	
*	
*	
!	
+ 1	4
+ 2	
- 9	
- 2	
*	
!	