

18:47:49 / RUNNING / Remaining: 1:59:10

A B C D E F G

Submit a solution for A-195718. To decimal.

Full score: 100  
Time limit: 1 s  
Real time limit: 5 s  
Memory limit: 256M

Problem A: 195718. To decimal.

You are given some binary string (consisting only from '1' and '0'). Convert this string to the decimal number.

Solve only using recursion!

Input format

The only line of input contains a binary string  $s$  ( $1 \leq |s| \leq 30$ ).

Output format

Convert string  $s$  to decimal number and print it.

Examples

Input

1

Output

1

Input

0

Output

0

## Submit a solution for B-195714. Asman+Time = AsMe.

Full score: 100

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

### Problem B: 195714. Asman+Time = AsMe.

Asman is very upset ... And suddenly his teacher wrote to him to create a problem for the first ones. And Asman was ve  
Therefore, he decided not to be bored, to sort the time. Help Asman, cheer him up ... (He is very upset).

#### Input format

You are given int  $n$  - number of times, where  $1 \leq n \leq 100$ , string  $s$  - inc or dec command(it is mean if inc - need to  
dec - to sort in decreasing order). And also you are given  $n$  lines with 3 numbers  $h, m$  and  $s$  in each line - times (hours,  
where  $0 \leq h, m, s \leq 100$ .

#### Output format

Sort this time in increasing or decreasing order.

#### Examples

##### Input

```
4
inc
12 13 14
12 13 8
25 11 16
25 50 0
```

##### Output

```
12 13 8
12 13 14
25 11 16
25 50 0
```

##### Input

```
2
dec
12 12 12
12 12 14
```



Submit a solution for C-195249. Find number without pair.

Full score: 100

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

**Problem C: 195249. Find number without pair.**

Given an array of integer numbers, where every number has its pair, except for one. Find the number that appears only once in the array.

**Input format**

The first line of input contains an integer  $n$ , size of the array ( $1 \leq n \leq 10^5$ ). Next line contains  $n$  integers, values of the array ( $-10^5 \leq a_i \leq 10^5$ ).

**Output format**

Print the number that appears only once in the array.

**Examples**

**Input**

```
3
2 2 1
```

**Output**

```
1
```

**Input**

```
7
1 2 3 1 2 5 7
```

**Output:**

```
5
```

**Input**

```
5
4 1 2 1 2
```

**Output**

Чтобы начать поиск, введите здесь запрос



## Submit a solution for D-193932. Goole Translator.

Full score: 100  
Time limit: 1 s  
Real time limit: 5 s  
Memory limit: 256M

### Problem D: 193932. Goole Translator.

You have implement simple translator program using special library presented in input and then you will return translation of that word.

#### Input format

The first line contains integers  $N$ , where  $1 \leq N \leq 100$ . Next  $2 * N$  lines contain strings. At  $i_{th}$  line placed WORD and at  $i + 1_{th}$  line placed its TRANSLATION. The last line contains WORD to translate.

#### Output format

Output translation of word.

#### Examples

##### Input

```
3
word
slova
test
test
thin
tonkyy
thin
```

##### Output

```
tonkyy
```

#### Notes

If there are several translations for one word you have to use only last translation for given word.

#### Submit a solution

Language: g++ - GNU C++ 7.4.0

File  Файл не выбран

Send

Чтобы начать поиск, введите здесь запрос





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18:51:41 / RUNNING / Remaining: 1:55:18

[A](#)[B](#)[C](#)[D](#)[E](#)[F](#)[G](#)

## Submit a solution for E-194141. Simple queue.

Full score: 100

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

### Problem E: 194141. Simple queue.

John and Sara have come up with an easy task for you, you need to implement queue operations:

- **push**  $n$  - add the number  $n$  to the queue (the value of  $n$  is set after the command). The program should print *ok*.
- **pop** - delete the first item from the queue. The program should print its value.
- **front** - the program should print the value of the first element without removing it from the queue.
- **size** - the program should print the number of items in the queue.
- **clear** - the program should clear the queue and print *ok*.
- **exit** - the program should output *bye* and shut down.

### Input format

Queue management commands are entered, one per line.

### Output format

It is required to output the protocol of working with the queue, one message per line.

### Examples

#### Input

```
size
push 1
```



Чтобы начать поиск, введите здесь запрос



Z236



18:54:41 / RUNNING / Remaining: 1:52:18

A B C D E F G

Submit a solution for F-195725. Stack+Ernur=StaNur.

Full score: 100

Time limit: 1 s

Real time limit: 5 s

Memory limit: 256M

### Problem F: 195725. Stack+Ernur=StaNur.

Yernur decided to check the long example of discrete math course ... Just kidding, Asman decided to check the example. There were a lot of all kinds of parenthesis:  $((, (, ), )$  and

sequences, so everyone got confused. Help determine if the bracket sequence is correct or not.

#### Input format

You are given bracket sequence.

#### Output format

Print yes if it is correct bracket sequence, else no.

#### Examples

Input

{ } { }

Output

yes

Input

{ } } { }

Output

no



### Submit a solution for G-194119. Count.

Full score: 100  
Time limit: 1 s  
Real time limit: 5 s  
Memory limit: 256M

#### Problem G: 194119. Count.

John and Sara are tired and have come up with an easy task for you. You need to find the number of all possible combinations of strings.

#### Input format

Input data string  $S$  ( $1 \leq |S| \leq 11$ ).

#### Output format

Answer.

#### Examples

##### Input

ab

##### Output

2

##### Input

aa

##### Output

1

##### Input

1111jshera

##### Output

204875