

## Problem A. 72769. Odd or Even

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

Given an integer,  $n$ , perform the following conditional actions:

- If  $n$  is odd, print "Odd"
- If  $n$  is even, print "Even"
- If  $n$  is 0, print "None"

### Input

A single line containing a positive integer,  $n$ .  $0 \leq n \leq 100$

### Output

Print Odd, Even or None according to the task.

### Examples

standard input	standard output
5	Odd
89	Odd
0	None
16	Even
13	Odd
96	Even

## Problem B. 72770. Super numbers

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

Given an integer,  $n$ , perform the following conditional actions:

- If  $n$  is odd, print "Super"
- If  $n$  is even and in the inclusive range of 2 to 5, print "Not Super"
- If  $n$  is even and in the inclusive range of 6 to 20, print "Super"
- if  $n$  is even and greater than 20, print "Not Super"

### Input

A single line containing a positive integer,  $n$ .  $1 \leq n \leq 100$

### Output

Print Super according to the task, otherwise print Not Super

### Examples

standard input	standard output
3	Super
100	Not Super
14	Super
5	Super
89	Super

## Problem C. 72772. Leap year

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

It is required to determine whether a given year is a leap. A year is a leap if the number is divided by 4, but not by 100, and also if it is divided by 400.

### Input

Input a single number - the number of the year.  $1 \leq year \leq 30000$

### Output

Output "YES" or "NO"

### Examples

standard input	standard output
2007	NO
2000	YES
3005	NO
2012	YES
30000	YES

## Problem D. 72773. Steaks

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

After the personal contest, happy but hungry programmers dropped into the restaurant Kaganat and ordered  $n$  specialty steaks. Each steak is cooked by frying each of its sides on a frying pan for one minute. Unfortunately, the chef has only one frying pan, on which at most  $k$  steaks can be cooked simultaneously. Find the time the chef needs to cook the steaks.

### Input

The only input line contains the integers  $n$  and  $k$  separated with a space  $1 \leq n, k \leq 1000$

### Output

Output the minimal number of minutes in which the chef can cook  $n$  steaks.

### Examples

standard input	standard output
3 2	3
4 8	2
13 7	4
5 10	2
1 2	2
15 2	15

## Problem E. 72776. Which one

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

### Input

Two integers are given.

### Output

The program should output the number 1 if the first number is greater than the second, the number 2 if the second is greater than the first, or the number is 0 if they are equal.

### Examples

standard input	standard output
2 7	2
4 3	1
9 5	1
100 1	1
1 1	0

## Problem F. 72778. Sum

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

In this task, you should find the sum of all numbers from 1 to  $n$ .

### Input

Given the positive integer  $n$ .  $1 \leq n \leq 1000$

### Output

Output the sum.

### Examples

standard input	standard output
3	6
10	55
1	1
7	28
100	5050

## Problem G. 72779. Maxi

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

Given  $n$  integers. In this task, you should find the maximum from these numbers.

### Input

In first line, given  $n$ .  $1 \leq n \leq 1000$ . In the second line, given  $n$  integer numbers.

### Output

Output the maximum.

### Examples

standard input	standard output
5 1 2 3 4 5	5
4 1 1 2 1	2
10 1 2 3 1 2 3 10 2 1 11	11
1 2	2
2 1 100	100

## Problem H. 72782. Interesting problem

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

Given  $n$  numbers you need to count the number of even and the number of odd numbers from the given list.

### Input

In the first line, input  $n$ .  $1 \leq n \leq 1000$  In the second line, given  $n$  integers

### Output

In the first line, output the number of evens, after that output the number of odds.

### Examples

standard input	standard output
5 1 2 3 4 5	2 3
1 2	1 0
10 1 1 1 1 1 1 1 1 1 1	0 10
3 1 2 1	1 2
8 4 4 4 4 4 4 4 4	8 0



## Problem I. 72784. Great seven

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

Among  $n$  numbers you need to count the number of numbers that ends with 7.

### Input

In the first line, input  $n$ .  $1 \leq n \leq 1000$ . In the second line, input  $n$  positive integer numbers.

### Output

Output the number of numbers that ends with 7.

### Examples

standard input	standard output
1 4	0
10 7 77 7 7 7 7 7777 7 7 77	10
4 10 71 70 7	1
5 10 10 10 10 13	0
7 7 7 7 7 7 7 71	6

## Problem J. 72785. From zero to hero

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

Given  $n$  numbers you need to output the number of zeros among these numbers.

### Input

In the first line, input  $n$ .  $1 \leq n \leq 1000$ . In the second line, input  $n$  positive integer numbers.

### Output

Output the answer to the problem.

### Examples

standard input	standard output
5 100 10 101 11 50	5
4 301 1 20 88	2
7 1 1 1 1 1 1 1	0
2 101 10	2
8 10 1000 10101 5 1 2 10 51	7

## Problem K. 72787. Super square

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

Find all exact squares of natural numbers that do not exceed a given number  $N$ .

### Input

Given positive integer  $N$ .

### Output

Output answer for the problem in each line.

## Examples

standard input	standard output
10	1 4 9
21	1 4 9 16
4	1 4
16	1 4 9 16
1000	1 4 9 16 25 36 49 64 81 100 121 144 169 196 225 256 289 324 361 400 441 484 529 576 625 676 729 784 841 900 961

## Problem L. 72789. 2Power

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

For a given number  $N$ , print out all integer powers of two that do not exceed  $N$ , in increasing order.

### Input

Given positive integer  $N$ .

### Output

Output answer for the problem.

### Examples

standard input	standard output
50	1 2 4 8 16 32
32	1 2 4 8 16 32
1	1
28	1 2 4 8 16
100	1 2 4 8 16 32 64

## Problem M. 72792. Bitwise AND

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

Given two integers  $a$  and  $b$ . You should do AND operation between them.

### Input

Given two integers  $a, b$ .  $1 \leq a, b \leq 100$

### Output

Output the answer to the problem.

### Examples

standard input	standard output
1 2	0
5 10	0
7 7	7
12 13	12
0 100	0

## Problem N. 72794. Bitwise OR

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

Given two integers  $a$  and  $b$ . You should do OR operation between them.

### Input

Given two integers  $a, b$ .  $1 \leq a, b \leq 100$

### Output

Output the answer to the problem.

### Examples

standard input	standard output
1 4	5
10 14	14
33 33	33
15 18	31
23 87	87

## Problem O. 72795. Bitwise XOR

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

Given two integers  $a$  and  $b$ . You should do XOR operation between them.

### Input

Given two integers  $a, b$ .  $1 \leq a, b \leq 100$

### Output

Output the answer to the problem.

### Examples

standard input	standard output
0 1	1
1 1	0
0 0	0
21 14	27
1 15	14