

ASSIGNMENT (3)

Loops

Grade: 100 Point

Deadline: 11/12/2024 - 12:00AM

[Class Room Link](#)

Name:

E-Mail:

ID:

Note:

If you do not have an ID yet, please leave it blank
and we will contact you to provide your ID.

input[Copy](#)

5

output[Copy](#)

1
2
3
4
5

Question One [10 point]

Given a number N . Print numbers from 1 to N in separate lines.

Input

Only one line containing a number N ($1 \leq N \leq 10^3$).

Output

Print N lines according to the required above.

Example

Question Two [10 point]

Given a number N . Print all even numbers between 1 and N inclusive in separate lines.

Input

Only one line containing a number N ($1 \leq N \leq 10^3$).

Output

Print the answer according to the required above.

Example

input	Copy
10	
output	Copy
2	
4	
6	
8	
10	

Question **Three** [15 point]

Given a number X . Determine if the number is prime or not

Note:

A prime number is a number that is greater than 1 and has only two factors which are 1 and itself. In other

words: prime number divisible only by 1 and itself.

Example

input	Copy
7	
output	Copy
YES	

input	Copy
15	
output	Copy
NO	

Question Four [20 point]

Given a number N , and N numbers, find maximum number in these N numbers.

Input

First line contains a number N ($1 \leq N \leq 10^3$).

Second line contains N numbers X_i ($0 \leq X_i \leq 10^9$).

Output

Print the maximum number.

Example

input	Copy
5 1 8 5 7 5	
output	Copy
8	

input	Copy
5 -5 0 -3 -4 12	
output	Copy
Even: 3 Odd: 2 Positive: 1 Negative: 3	

Question Five [20 point]

Given N numbers. Count how many of these values are **even**, **odd**, **positive** and **negative**.

Input

First line contains one number N ($1 \leq N \leq 10^3$) number of values.

Second line contains N numbers ($-10^5 \leq X_i \leq 10^5$).

Output

Print four lines

Example

Question Six [25 point]

Given a number N . Print a left angled triangle that has N rows.

For more clarification see the example below.

Input

Only one line containing a number N ($1 \leq N \leq 99$).

Output

Print the answer according to the required above.

Example

input

Copy

4

output

Copy

```
*  
**  
***  
****
```

Note

Don't print any extra spaces after symbol " * ".

Notes:

- Submitting the assignment within 24 hours of its release will earn you a **+10 bonus**.
- Submitting the assignment after the practice session will result in receiving only **half of the grade**.

- If you facing any difficulties with the assignment, feel free to reach out to any instructor for assistance.