

1. Is It Prime?

Problem Description

Take an integer **A** as input, you have to tell whether it is a prime number or not. A prime number is a natural number **greater** than **1** which is divisible only by **1** and **itself**.

Problem Constraints

$1 \leq A \leq 10^6$

Input Format

First and only line of the input contains a single integer **A**.

Output Format

Print **YES** if **A** is a prime, else print **NO**.

Example Input

Input 1:

3

Input 2:

4

Example Output

Output 1:

YES

Output 2:

NO

Example Explanation

Explanation 1:

3 is a prime number as it is only divisible by 1 and 3.

Explanation 2:

4 is not a prime number as it is divisible by 2.

2. continue in loop

What would be the output of the following program?

```
n=8
while n>=0:
    n -= 2
    if n%2==0:
        continue
    print(n, end=" ")
else:
    print("Exec", end=" ")
```

Choose the correct answer from below:

- A. Exec
- B. 8 6 4 2 0
- C. 8 6 4 2 0 Exec
- D. No output

3. Print Squares of Given Numbers

Problem Description

Using a loop, Print the squares of the following numbers: 1, 3, 6, 10, 15, 21.
Print each of the number in a new line.

Input Format

No input.

Output Format

Square of numbers as specified in the description.

4. break in loop

What is the output of the following program?

```
i=2
if i==2:
    i+=1
for j in range(i):
    pass
    break
    i+=1
print(i)
```

Choose the correct answer from below:

- A. 3
- B. 1
- C. infinite loop
- D. 2
- E. 4