| 15 days 10 hours | 15 days 10 hours | 13 days 10 hours | 13 days 10 hours | Week4_Coding: Attempt review | REC-PS | 10.00/10.00 | 100.00 out of 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 1

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, . . . and so on.

6/19/24,e7:4188Macci series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series starts with 0 and 1, and continues generating the first series series series starts with 0 and 1, and continues generating the first series se

- first Fibonacci number is 0,
- second Fibonacci number is 1,
- third Fibonacci number is 1,
- fourth Fibonacci number is 2,
- fifth Fibonacci number is 3,
- sixth Fibonacci number is 5,
- seventh Fibonacci number is 8, and so on.

For example:

| Input | Result |
|-------|--------|
| 1 | 0 |
| 4 | 2 |
| 7 | 8 |

```
1 √ def fibonacci(n):
        if n<=0:
 3
            return "Invalid input. Please enter a positive integer."
        elif n==1:
 4 🔻
            return 0
 5
        elif n==2:
 6 ▼
 7
            return 1
 8 🔻
        else:
9
            a,b = 0,1
10 🔻
            for i in range (2,n):
                a,b = b, a+b
11
12
            return b
13
   n=int(input())
14
15
   print(fibonacci(n))
16
```

| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ~ | 1 | 0 | 0 | ~ |

6/19/24^YCF: 193 14M

Example Input:

24

Output:

Yes

Example Input:

26

Output:

No

For example:

| Input | Result |
|-------|--------|
| 24 | Yes |

Answer: (penalty regime: 0 %)

| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ~ | 24 | Yes | Yes | ~ |
| ~ | 26 | No | No | ~ |

Passed all tests! ✓

Write a program that finds whether the given number N is Prime or not.

Assumption: $2 \le N \le 5000$, where N is the given number.

Example1: if the given number N is 7, the method must return 2

Example2: if the given number N is 10, the method must return 1

For example:

| Input | Result | |
|-------|--------|--|
| 7 | 2 | |
| 10 | 1 | |

Answer: (penalty regime: 0 %)

| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ~ | 7 | 2 | 2 | ~ |
| ~ | 10 | 1 | 1 | ~ |

Passed all tests! ✓

Correct

Output Format: 6/19/24, 7:13 PM Yes or No.

Example Input:

175

Output:

Yes

Explanation

```
1^1 + 7^2 + 5^3 = 175
```

Example Input:

123

Output:

No

For example:

| Input | Result |
|-------|--------|
| 175 | Yes |
| 123 | No |

```
1
    a=input()
    len_a=len(a)
a=int(a)
 3
 4 copy_a=int(a)
    result=0
 6 i=int(len_a)
 7 while a!=0 :
 8
        b=a%10
 9
        result=result +pow(b,i)
10
         a=int(a/10)
11
         i=i-1
12 v if result==copy_a:
13 pr
14 v else:
15 pr
        print("Yes")
        print("No")
```

6/19/24, $7.13 \times 10^{10} \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 362880$

Write a program to find the factorial of a given number.

The given number will be passed to the program as an input of type int.

The program is expected to calculate the factorial of the given number and return it as an int type.

Assumptions for this program:

The given input number will always be greater than or equal to 1.

Due to the range supported by int. the input numbers will range from 1 to 12.

For example:

| Input | Result |
|-------|--------|
| 5 | 120 |
| 4 | 24 |
| 9 | 362880 |

| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ~ | 5 | 120 | 120 | ~ |
| ~ | 4 | 24 | 24 | ~ |

If the given number is 292, the program should return 2 because there are only 2 unique digits '2' and '9' in this number 6/19/24f This grunn number is 1015, the program should return 3 because there are only 2 unique digits '2' and '9' in this number 6/19/24f This grunn number is 1015, the program should return 3 because there are only 2 unique digits '2' and '9' in this number 6/19/24f This grunn number is 1015, the program should return 3 because there are only 2 unique digits '2' and '9' in this number 6/19/24f This grunn number is 1015, the program should return 3 because there are only 2 unique digits '2' and '9' in this number 6/19/24f This grunn number is 1015, the program should return 3 because there are only 2 unique digits '2' and '9' in this number 6/19/24f This grunn number is 1015, the program should return 3 because there are only 2 unique digits '2' and '9' in this number 6/19/24f This grunn number is 1015, the program should return 3 because there are only 2 unique digits '2' and '9' in this number is 1015, the program should return 3 because there are only 2 unique digits '2' and '9' in this number is 1015, the program should return 3 because there are only 2 unique digits '2' and '9' in this number is 1015, the program should return 3 because the program of the program o

For example:

| Input | Result |
|-------|--------|
| 292 | 2 |
| 1015 | 3 |

Answer: (penalty regime: 0 %)

```
x=int(input())
   if(x<1 and x>25000):
2
       print('Invalid')
3
   else:
4
5
       uniq_dig = set()
6
       y=str(x)
7
       for dig in y:
8
           uniq_dig.add(dig)
9
       print(len(uniq_dig))
```

| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ~ | 292 | 2 | 2 | ~ |
| ~ | 1015 | 3 | 3 | ~ |
| ~ | 123 | 3 | 3 | ~ |

Passed all tests! <

Correct

Week4_Coding: Attempt review | REC-PS

6/19/24parfeatPsquare greater than N.

Example Input:

10

Output:

16

Answer: (penalty regime: 0 %)

```
import math
def squarenum(n):
    root = math.ceil(math.sqrt(n))
    return root**2

x=int(input())
print(squarenum(x))
```

| | Input | Expected | Got | |
|----------|-------|----------|-----|---|
| ~ | 10 | 16 | 16 | ~ |

Passed all tests! ✓

Correct

Some examples are as below.

6/19/24f the griven number is 292, the program should return 1 because the recision of Attempted and the program should return 1 because the recision of the recipient of the r

If the given number is 1015, the program should return 2 because there are 2 non-repeated digits in this number, '0', and '5'.

If the given number is 108, the program should return 3 because there are 3 non-repeated digits in this number, '1', '0', and '8'.

If the given number is 22, the function should return 0 because there are NO non-repeated digits in this number.

For example:

| Input | Result |
|-------|--------|
| 292 | 1 |
| 1015 | 2 |
| 108 | 3 |
| 22 | 0 |

```
x=int(input())
 2 + if (x>=1 and x<=25000):
 3
        y=str(x)
 4
        uniq_dict={}
 5 🔻
        for dig in y:
 6 ₹
            if dig in uniq_dict:
 7
                uniq_dict[dig] +=1
 8
                 uniq_dict[dig] =1
9
10
        non_rep=0
        for count in uniq_dict.values():
11 •
            if count==1:
12 🔻
13
                 non rep +=1
14
        print(non_rep)
15 ▼ else:
16
        print("invalid")
```

| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ~ | 292 | 1 | 1 | ~ |
| ~ | 1015 | 2 | 2 | ~ |
| ~ | 108 | 3 | 3 | ~ |
| ~ | 22 | 0 | 0 | ~ |

Week4_Coding: Attempt review | REC-PS

6/19/24ⁿP.45 PM

Output

1234

Test Case 2

Input

6

Output

123456

Answer: (penalty regime: 0 %)

| | Input | Expected | Got | |
|---|-------|----------|--------|---|
| ~ | 4 | 1234 | 1234 | ~ |
| ~ | 6 | 123456 | 123456 | ~ |

Passed all tests! ✓

Correct

6/19/24o ไม่ประการแบบ Yes if condition satisfies else prints No.

Example Input:

14

Output:

Yes

Example Input:

13

Output:

No

Answer: (penalty regime: 0 %)

| | Input | Expected | Got | |
|---|-------|----------|-----|---|
| ~ | 14 | Yes | Yes | ~ |
| ~ | 13 | No | No | ~ |

Passed all tests! <

