

1. Concat Names

Write a program that reads two names and a delimiter. It should print the names joined by the delimiter.

Examples

| Input | Output |
|----------------------|--------------|
| John Smith -> | John->Smith |
| Jan White <-> | Jan<->White |
| Linda Terry => | Linda=>Terry |

Hints

- Read the data:

```
first_name = input()
last_name = input()
delimiter = input()
```

- Print:

```
print(f'{first_name}{delimiter}{last_name}')
```

2. Convert Meters to Kilometers

You will be given an **integer** that represents a **distance in meters**. Write a program that **converts meters** to **kilometers** formatted to the second decimal point.

Examples

| Input | Output |
|-------|--------|
| 1852 | 1.85 |
| 798 | 0.80 |

Hints

- First, we read the input number:

```
meters = int(input())
```

- Then, we convert it to km:

```
kilometers = meters/1000
```

- Finally, print the number formatted to the second decimal point:

```
print(f'{kilometers:.2f}')
```

3. Pounds to Dollars

Write a program that **converts British pounds** (integer) to **US dollars** formatted to the 3rd decimal point.

1 British Pound = 1.31 Dollars.

Examples

| Input | Output |
|-------|---------|
| 80 | 104.800 |
| 39 | 51.090 |

Hints

- Read the pounds:

```
pounds = int(input())
```

- Convert them to dollars:

```
dollars = pounds * 1.31
```

- Finally, print the number formatted to the third decimal point:

```
print(f'{dollars:.3f}')
```

4. Centuries to Minutes

Write a program that reads an integer number of **centuries** and converts it to **years**, **days**, **hours**, and **minutes**.

Examples

| Input | Output |
|-------|---|
| 1 | 1 centuries = 100 years = 36524 days = 876576 hours = 52594560 minutes |
| 5 | 5 centuries = 500 years = 182621 days = 4382904 hours = 262974240 minutes |

Hints

- Assume that one year has 365.2422 days on average ([the Tropical year](#)).

5. Special Numbers

Write a program that reads an integer **n**. Then, for all numbers in the range **[1, n]**, prints the number and if it is special or not (**True / False**). A number is **special** when the **sum of its digits is 5, 7, or 11**.

Examples

| Input | Output |
|-------|--|
| 15 | 1 -> False 2 -> False 3 -> False 4 -> False 5 -> True 6 -> False 7 -> True |

| | |
|---|---|
| | 8 -> False 9 -> False 10 -> False 11 -> False 12 -> False 13 -> False 14 -> True 15 -> False |
| 6 | 1 -> False 2 -> False 3 -> False 4 -> False 5 -> True 6 -> False |

Hints

- First, we read the data:

```
n = int(input())
```

- Iterate from 1 to **n** (we write **n+1** because the for loop in Python iterates from 1 to **n-1** by default):

```
for num in range(1, n + 1):
    sum_of_digits = 0
    digits = num
```

- To calculate the sum of digits of given number **num**, you might repeat the following: sum the last digit (**num % 10**) and remove it (**sum = sum / 10**) until **num** reaches 0.

```
while digits > 0:
    sum_of_digits += digits % 10
    digits = int(digits / 10)
```

- Finally, print the result:

```
if (sum_of_digits == 5) or (sum_of_digits == 7) or (sum_of_digits == 11):
    print(f'{num} -> True')
else:
    print(f'{num} -> False')
```

6. Next Happy Year

You are saying goodbye to your best friend: "**See you next happy year**". Happy Year is the year with only **distinct digits**, for example, 2018. Write a program that receives an integer number and finds the next happy year.

Examples

| Input | Output |
|-------|--------|
| 8989 | 9012 |
| 1001 | 1023 |