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Assignment submitted by

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Check for happy number

```
In [ ]:    num = int(input("Enter a number"))
    num_copy = num

while num != 1 and num != 4:
    current = num
    sum_squares = 0

while current > 0:
    digit = current % 10
    sum_squares += digit ** 2
    current //= 10

num = sum_squares

if num == 1:
    print(f"{num_copy} is happy number.")

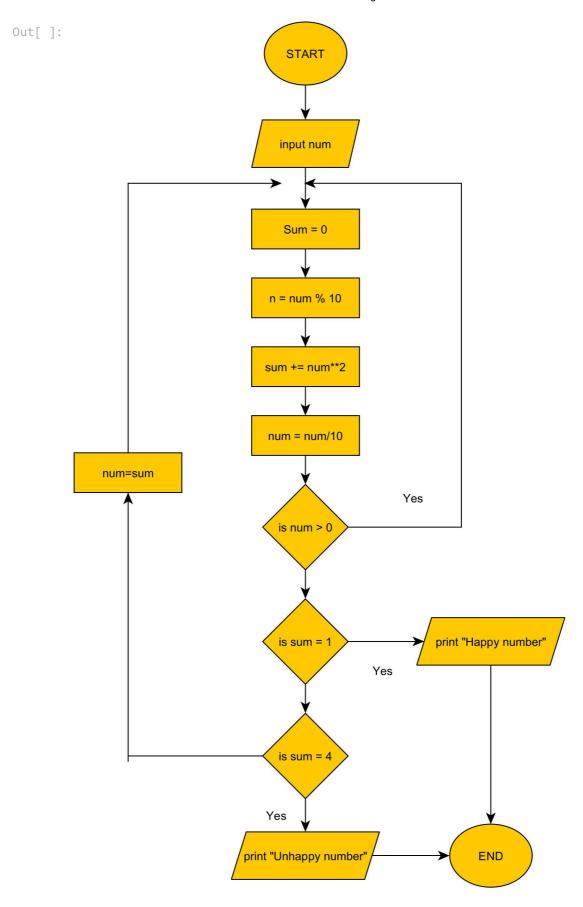
else:
    print(f"{num_copy} is unhappy number.")
```

19 is happy number.

```
In [ ]: from IPython.display import Image

Image("happynum.jpg", width=500, height=500)
```

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print the pattern

```
In [ ]: user_input = int(input("Enter a number: "))
for i in range(user_input, 0, -1):
    print('*' * i)
```

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reversing alphanumeric strings

321abcd

```
In [ ]:
```