Strings 2

Tuesday, December 2021 12:00

→ find(), count(), in
→ Immutable Nature
→ Replace
→ Join
→ Reverse
→ Formatting

find()

It returns the idx of first occurrence

s = " Harry Potter "

s.find("P") → first idx

s.find("Pot")

s.find("Po") → 6

count()

returns no. of occ of a substr

-6 -5 -4 -3 -2 -1

S	t	a	t	e	R
0	1	2	3	4	5

t, se

(-2)

Python/C/C++/Java

Traverse / loop over / slice

in operator

"Ha" in "Harry"

T/F

True

valid code

for f in Movies
if ("Harry Potter" in f)
print(f)

for f in Movies
if (f.find("Harry Potter"))
print(f)

f: m1, m2, m3, ..., mn

Immutable Nature

Immutable → something that cannot be changed

mutable → something that can be changed

assign op

a = "Scaler"

Why we use variable?

Store data & access it again

memory

S	c	a	l	e	R

4Gb

a

Computer allotes memory address to the data hosted of a variable

a = "Scaler"

a knows that the data that has been assigned to me is stored at 4Gb

memory

S	c	a	l	e	R

4Gb

Immutable

no variable

memory

1 a = "hello" → "hello"

2 a = a + " world" → "hello world"

R calculated

3 a = "hello" → "hello"

Garbage Collector

① a = "hello"

② a = a + "world"

op is being revaluated

"hello"

removed

"hello world"

GC

a = "Scaler"

0 1 2 3 4 5

a[1] = 'p'

Immutable	mutable
String.	List -
find —	
float —	
bool —	

Break

Let's meet at 10:20!

Resume!

Replace

changes the first str with 2nd str in all occurrence

quiz 1

memory

a = "hello"

b = a.replace("l", "y")

a = "Yello"

print(b)

"hello"

"Yello"

quiz 2

1 a = "between"

2 b = a

3 b.replace("b", "c")

4 print(a) → between

5 print(b) → between

"between"

"between"

GC

List to string

s = "hello"

h e l l o

1 by 1

H e l l o

h - e - l - l - o

Join

separator str

" ".join(iterable)

Reverse

L = [hello, how, are, you]

0 → you are how hello

GC

L = [hello, how, are, you]

① [::-1]

② .reverse()

[you, are, how, hello]

String format

" I have {} apples & {} orange " .format(apple, orange)

Thank you!

find() → -1 when substr is not there

× error

[101, 102, ... 499]

S get all those substrings starts with S

301 ... 399

× f.find("S") = -1

304 → error

Continue