

subiect [0/1]

20.10.2022

Quest 3

String de caractere
(dozo str)

String de caractere = o secvență IMUTABILĂ de caractere indexat de la 0

$s = \text{"test"}$

~~$s[1] = \text{"e"}$~~

$s = s[:1] + \text{"e"} + s[2:]$

continutul
nu mai poate
fi modificat

Bazin de stringuri (string pool)

$x = \text{"test"}$



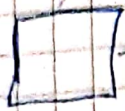
"test"

$y = \text{"test"}$



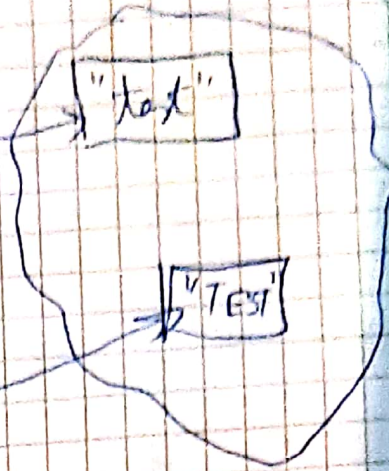
if $x == y$: $\rightarrow O(1)$
 if $x \text{ is } y$: $\rightarrow O(1)$

$x = \text{"test"}$



$x.upper()$

ref interne



$\text{print}(x) \Rightarrow \text{"test"} !!!$

$\Rightarrow x = x.upper()$

$s = \text{"te"}$

$t = \text{"st"}$

$v = s + t$

$s = s + \text{"st"}$

$s = \text{'test'}$

$s = \text{'test'}$

$s = \text{"test"}$

$s = \text{'Ane'}$

'see'

'mere'

$v = \text{"te"} + \text{"st"}$

$\text{intern}(s) \rightarrow \text{module sys}$

import sys

$s = \text{sys.intern}(s)$

$s = \text{"Ane"}$

see

mere

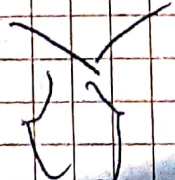
$\text{print}(s)$

$\rightarrow \text{"Ane see mere"}$

$\text{print}(s) \rightarrow \text{"Ane see mere"}$

$x = 10$

$\text{print}(\{ \{ \{ x \} \} \}) \rightarrow \{ 10 \}$



indexare directă →

Accesarea elem. unei val. de tip	0	1	2	3	4	5	6
D =	"p"	"x"	"o"	"x"	"y"	"x"	"e"
	-19	-10	-9	-8	-7	-6	-5

$$D[3] = D[-8] = "x"$$

AM
"x"

Gene. de indici (slice)

$$D[2:6] = "orgx"$$

↑ ↑
inclusiv exclusiv

$$D[-8:-4] = D[-8:7] = [3:-4]$$

$$D[:3] = "po"$$

$$D[: -1]$$

Operatori pt. siruri

+, *, op. relationali

$$"abc" * 3 = "abcabcabc"$$

$$"A" < "a"$$

$$"ee" \text{ in } "meee" = \text{True}$$

Funcții pt. siruri

a) $\text{len}(\text{sir})$

$$\text{len}("let") = 4$$

$$\text{len}([1, 2, 3]) =$$

b) $\text{str}(\text{expresie})$

$$\text{str}(123) = "123"$$

$$\text{str}(1+2==3) = "True"$$

c) $\text{min}(\text{sir}) / \text{max}(\text{sir})$

d) ord (character)
ord("A") = 65

e) chr(x)
chr(65) = "A"

functie (sa, ...)

Metode pt. string (clasa str.)

str.metoda()

sen

alt sen

1) metode pt. parametre

a) strip ([opti])
parameter optional []

s = "uuu test uu"

s.strip() = "test"

s = "programa"

s.strip("p") = "rograma"

b) center (linie, [caracter])

s = "test"

s.center(10) = "uuu test uu"

c) format

s = "Ana are {nume} ani!"

s.format(7, "verzi")

s = "Ana are {1} mere {0}!"

s.format("verzi", 7)

s = "Ana are {nume} mere {canta}!"

- 1) format (re = ..., a)
- 2) Metode pt. text caracterelor

lower()
upper()
swapcase()

title()

- 3) Metode de clasificare

isascii()

isalpha()

isdigit()

← le nivel de nr!

- 4) Metode de control

a) count (sir, [start], [stop])

"balocheboc" count ("e") = 2

numere
doar spa
diferite
"ooo"
count
= 2

b) find (—//—, —//—, —//—)

c) rfind (—//—, —//—, —//—)

d) startswith (—//—, —//—, —//—)

e) endswith (...)

f) replace (sir 1, sir 2, [max])

- 5) Metode de concatenare / împărțire

a) join ([liste siruri])

s = ";".join(["Ana", "Ian", "Mihai"])

s = "Ana, Ian, Mihai"

b) split ([caracter])

"Ana are mere, mere si mere"

t = s.split() = t = ["Ana", "are", "mere", "si", "mere"]