

$A = [1, 2, 3, 4, 5, \text{"sunny"}, \text{True}]$
 +ve index \rightarrow 0 1 2 3 4 5 -6
 element-

$$A[5] = \text{"sunny"} \quad A[6] = \text{True}$$

$$A[-2] = \text{"sunny"} \quad A[-1] = \text{True}$$

$A = [1, 2, 3, 4, 5, \text{"sunny"}, \text{True}]$
 +ve index \rightarrow 0 1 2 3 4 5 -6
 element-

$$A[2:5] = [3, 4, 5]$$

$$A[-5:-2] = [3, 4, 5]$$

$A = [1, 2, 3, 4, 5, \text{"sunny"}, \text{True}]$
 +ve index \rightarrow 0 1 2 3 4 5 -6
 element-

$$A[0:4] = [1, 2, 3, 4]$$

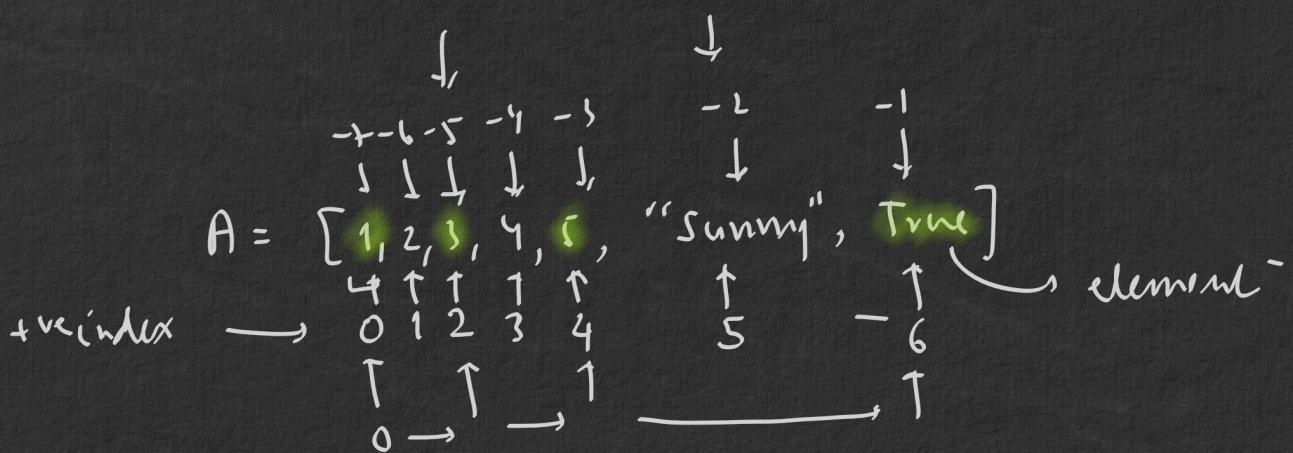
$$A[:4] = [1, 2, 3, 4]$$

$$A[-7:-3] = [1, 2, 3, 4]$$

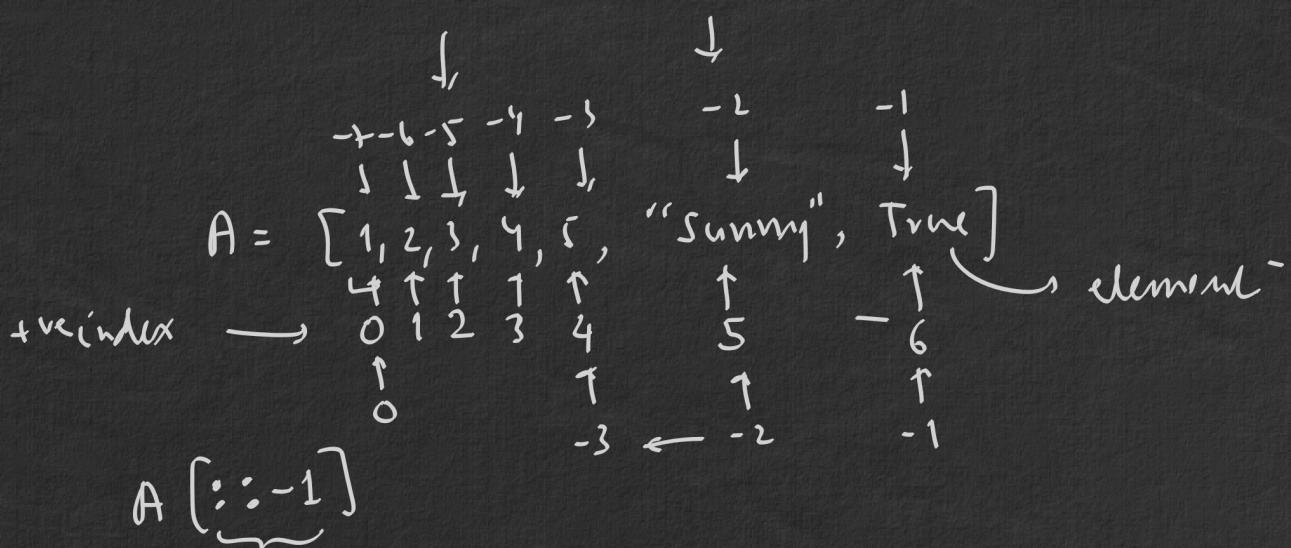
$$A[5:] = ["sunny", \text{True}] \quad \checkmark$$

$$A[5:6] = ["sunny"]$$

$$A[5:7] = ["sunny", \text{True}] \quad \times$$



$$A[: : 2] = [1, 3, 5, \text{True}]$$



$$A[: : -2]$$

(start; end; step)

for i in range(0, 10, 2):
 print(i) excluded

→ 0
 → 2
 → 4
 → 6
 → 8
 → 10

	[1, 2, 3, 4, 5.0, 'Sunny', (1+2j), True]
index	-8 -7 -6 -5 -4 -3 -2 -1
	↑
	↓ start -8 -7 -6 -5 -4 -3 -2 -1 -0 -1 step
	for i in range(-1, -len(A) - 1, -1):
	print(i, A[i])
	(-1 A[-1] = True -2 A[-2] = (1+2j) : -8 A[-8] = 5.0 -9 A[-9] = 3) len(A) - 5

A = [1, 2, 3, 4, 5, 6, 7, 8]

A[::1000] = 1
 ::

```

1 string_example = ["bhaveen", "abhishek", "dew", "dj", "chalie"]
2
3 mi(string_exampel)

```

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1 # print the name with highest no of character -
2
3 max_len = 0 ✓
4 result = "" ✓
5 for example in string_example:
6     print(example, len(example)) → bhaveen, 7
7     if len(example) > max_len: → 7 > 0 = True
8         max_len = len(example) → max_len = 7
9         result = example → result = bhaveen.
10
11 print(f"RESULT: max_len: {max_len} name: {result}")

```

1st Iteration

2nd example = abhishek
len = 8

if $8 > 7$: True
max_len = 8
result = abhishek

3rd

example = dew
len = 3

if $3 > 8$ False
↓ X

max_len = 8 result = "abhishek"

A = [1, 2, 3, 2, 9]
 ↓
 ↑ ↑ ↑ ↑
 1 for i in range(len(A))
 if \sum in A[:i]: