

The background is a deep blue gradient with a subtle pattern of white dots. Overlaid on this are several white geometric elements: a large circular scale on the left with degree markings from 150 to 260, and several concentric circles with arrows indicating clockwise rotation, some solid and some dashed.

# STRINGS AND LISTS

# What is the Value of s?

s = 'abc'

s = 'd' \* 3 + s

s = s[2:-2]

- A. 'ddab'
- B. 'dab'
- C. 'dda'
- D. 'da'
- E. None of the above

# What is the Value of s?

s = 'abc'

s = 'd' \* 3 + s

'ddd' + 'abc' → 'dddabc'

s = s[2:-2]

'dddabc'[2:-2] →

0	1	2	3	4	5
-6	-5	-4	-3	-2	-1

- A. 'ddab'
- B. 'dab'
- C. 'dda'
- D. 'da'
- E. None of the above

# What is the Value of s?

s = 'abc'

s = 'd' \* 3 + s

'ddd' + 'abc' → 'dddabc'

s = s[2:-2]

'dddabc'[2:-2] →

'dddabc'

0	1	2	3	4	5
-6	-5	-4	-3	-2	-1

- A. 'ddab'
- B. 'dab'
- C. 'dda'
- D. 'da'
- E. None of the above

# What is the Value of s?

`s = 'Feng Chia University IESM'`

`s[0::23] + s[6:0:-2] + s[-1] * 2 = ?`

# What is the Output of the Following Program?

```
mylist = [1, 2, [3, 4, 5]]
```

0   1   2

```
print(mylist[1], mylist[1:2])
```



From this  
index



Up to but **not**  
**including** this index

- A. 2 2 3
- B. 2 [2, 3]
- C. 2 2
- D. 2 2 [3, 4, 5]
- E. None of the above



# What is the Output of the Following Program?

```
mylist = [1, 2, [3, 4, 5]]
```

0 1 2

```
print(mylist[1], mylist[1:2])
```



From this  
index

Up to but **not**  
**including** this index

**Slicing a list always  
produces a list!**

A. 2 2 3

B. 2 [2, 3]

C. 2 2

D. 2 2 [3, 4, 5]

E. **None of the above** 2 [2]

# How to Produce [105, 111]?

`s = [101, 103, 105, 108, 109, 111]`

- A. `s[2:3] + s[-1:]`
- B. `s[-4] + s[5]`
- C. `s[-4] + s[-1:]`
- D. More than one of the above
- E. None of the above



# How to Produce [105, 111]?

	0	1	2	3	4	5
s =	[101,	103,	105,	108,	109,	111]
	-6	-5	-4	-3	-2	-1

A.  $s[2:3] + s[-1:]$

[105] + [111]  $\longrightarrow$  [105, 111]

B.  $s[-4] + s[5]$

105 + 111  $\longrightarrow$  216

C.  $s[-4] + s[-1:]$

105 + [111]  $\longrightarrow$  Error!

D. More than one of the above

E. None of the above

# How to Produce [105, 111]?

	0	1	2	3	4	5
s =	[101,	103,	105,	108,	109,	111]
	-6	-5	-4	-3	-2	-1

A.  $s[2:3] + s[-1:]$

[105] + [111]  $\longrightarrow$  [105, 111]

B.  $s[-4] + s[5]$

105 + 111  $\longrightarrow$  216

C.  $s[-4] + s[-1:]$

105 + [111]  $\longrightarrow$  Error!

D. More than one of the above

E. None of the above

# Fill the Blank to Print ‘compute!’

```
subject = 'computer science!'
verb = _____
print(verb)
```

- A. subject[:7] + subject[-1]
- B. subject[:7] + subject[:-1]
- C. subject[:8] + subject[-1]
- D. subject[:8] + subject[:-1]
- E. None of the above

# Fill the Blank to Print 'compute!'

```
subject = 'computer science!'
verb = _____
print(verb)
```

- A. `subject[:7] + subject[-1]`
- B. `subject[:7] + subject[:-1]`
- C. `subject[:8] + subject[-1]`
- D. `subject[:8] + subject[:-1]`
- E. None of the above