- 1. What is the time complexity of searching elements in a stack?
 - A. O(1)
 - B. O(n)
 - C. O(log n)
 - D. O(n^2)
- 2. What action does Python take when a list used as a stack reaches its capacity?
 - A. Python automatically increases the capacity of the list without reallocating memory.
 - B. Python deallocates memory from the beginning of the list to accommodate new elements.
 - C. Python relocates the entire list to a new memory location with increased capacity and copies all existing elements.
 - D. Python raises an error and prevents further addition of elements to the list.
- 3. Consider the following list:

What will be the output when the s.pop() method is called twice consecutively?

```
s = []
s.append('https://www.cnn.com/')
s.append('https://www.cnn.com/world')
s.append('https://www.cnn.com/india')
s.append('https://www.cnn.com/china')
```

- A. 'https://www.cnn.com/india', 'https://www.cnn.com/china'
- B. 'https://www.cnn.com/world', 'https://www.cnn.com/china'
- C. 'https://www.cnn.com/', 'https://www.cnn.com/world'
- D. 'https://www.cnn.com/china', 'https://www.cnn.com/india'
- 4. What does the acronym LIFO stand for in the context of a stack data structure?
 - A. Last in, first out
 - B. Last in, first accessed

- C. Last input, first output
- D. Last input, first accessed
- 5. Which Python module is recommended for implementing a stack due to its efficient performance?
 - A. array
 - B. deque from collections
 - C. list
 - D. stack from queue