

9.9 Review Questions

1. What is printed by the following Python fragment?

```
s = "Jane Doe"  
print(s[1])
```

- (a) J
- (b) e
- (c) Jane
- (d) a

2. What is printed by the following Python fragment?

```
s = "Jane Doe"  
print(s[-1])
```

- (a) J
- (b) e
- (c) Jane
- (d) a

3. What is printed by the following Python fragment?

```
s = "Jane Doe"  
print(s[1:3])
```

- (a) Ja
- (b) Jan
- (c) an
- (d) ane

4. What is the output from the following program, if the input is Spam And Eggs?

```
def main():  
    msg = input("Enter a phrase: ")  
    for w in msg.split():  
        print(w[0], end=" ")  
  
main()
```

- (a) SAE

- (b) S A E
- (c) S S S
- (d) Spam And Eggs
- (e) None of the above.

5. What is the output of this program fragment?

```
for x in "Mississippi".split("i"):  
    print(x, end="")
```

- (a) Mssssp
- (b) M ssissippi
- (c) Mi ssi ssi ppi
- (d) M ss ss pp

6. ASCII is

- (a) a standardized encoding of written characters as numeric codes.
- (b) an encryption system for keeping information private.
- (c) a way of representing numbers using binary.
- (d) computer language used in natural language processing.

7. What function can be used to get the ASCII value of a given character?

- (a) `str()`
- (b) `ord()`
- (c) `chr()`
- (d) `ascii()`
- (e) None of the above.

8. What is output produced by the following?

```
1 s = "absense makes the brain shrink"  
2 x = s.find("s")  
3 y = s.find("s", x + 1)  
4 print(s[x : y])
```

- (a) sens
- (b) ens
- (c) en
- (d) sen

9. One difference between strings and lists in Python is that
- (a) strings are sequences, but lists aren't.
 - (b) lists can be indexed and sliced, but strings can't.
 - (c) lists are mutable (changeable), but strings immutable (unchangeable).
 - (d) strings can be concatenated, but lists can't.
10. What is an appropriate `for`-loop for writing the characters of the string `s`, one character per line?
- (a)

```
for ch in s:  
    print(ch)
```
 - (b)

```
for i in range(len(s)):  
    print(s[i])
```
 - (c) Neither of the above.
 - (d) Both of the above.
11. The following program fragment is meant to be used to find the sum of the ASCII values for all the characters in a string that the user enters. What is the missing line in this code?
- ```
phrase = input("Enter a phrase: ")
ascii_sum = 0 # accumulator for the sum
for ch in phrase:
 ##### missing line here
print(ascii_sum)
```
- (a) `ascii_sum = ascii_sum + ch`
  - (b) `ascii_sum = chr(ch)`
  - (c) `ascii_sum = ascii_sum + chr(ch)`
  - (d) `ascii_sum = ascii_sum + ord(ch)`
12. What is the result of evaluating the expression `chr(ord('A') + 2)`?
- (a) `'A2'`
  - (b) `'C'`
  - (c) `67`
  - (d) An error.
  - (e) None of the above.
13. What is the output of the following code?

```
s0 = "A Toyota"
s1 = ""
for ch in s0:
 s1 = ch + s1

print(s1)
```

- (a) A Toyota
- (b) atoyoT A
- (c) None of the above.

14. What is the output of the following code?

```
s0 = "A Toyota"
s1 = ""
for ch in s0[: : -1]:
 s1 = ch + s1

print(s1)
```

- (a) A Toyota
- (b) atoyoT A
- (c) None of the above.

15. What is the output of the following code?

```
s0 = "A Toyota"
s1 = ""
for ch in s0[-1 : 0 : -1]:
 s1 = s1 + ch

print(s1)
```

- (a) A Toyota
- (b) atoyoT A
- (c) None of the above.

16. What is the value of z after the following has been executed:

```
s = ''
for i in range(-1, 2):
 s = s + str(i)

z = int(s)
```

- (a) 0
- (b) 2
- (c) -1012
- (d) -101
- (e) This code produces an error.

17. What is the value of `ch` after the following has been executed?

```
ch = 'A'
ch_ascii = ord(ch)
ch = chr(ch_ascii + 2)
```

- (a) 'A'
- (b) 67
- (c) 'C'
- (d) This code produces an error.

18. What is the output produced by the `print()` statement in the following code?

```
s1 = "I'd rather a bottle in front of me than a frontal lobotomy."
s2 = s1.split()
print(s2[2])
```

- (a) '
- (b) d
- (c) rather
- (d) a
- (e) bottle

19. What is the output produced by the `print()` statement in the following code?

```
s1 = "I'd\nrather a bottle in front of me than a frontal lobotomy."
s2 = s1.split()
print(s2[2])
```

- (a) '
- (b) d
- (c) rather
- (d) a
- (e) bottle
- (f) None of the above.

20. The variable `s` contains the string `'cougars'`. A programmer wants to change this variable so that it is assigned the string `'Cougars'`. Which of the following will accomplish this?

(a) `s.upper()`

(b) `s[0] = 'C'`

(c) `s = 'C' + s[1 : len(s)]`

(d) `s.capitalize()`

- (e) All of the above.  
(f) None of the above.

21. What output is produced by the following code?

```
1 s = "Jane Doe"
2 print(s[1 : 3: -1])
```

- (a) aJ  
(b) naJ  
(c) na  
(d) en  
(e) None of the above.

22. After the following commands have been executed, what is the value of `x`?

```
s = "this is a test"
x = s.split()
```

23. After the following commands have been executed, what is the value of `y`?

```
s = "this is a test"
y = s.split("s")
```

24. Recall that the `str()` function returns the string equivalent of its argument. What is the output produced by the following:

```
a = 123456
s = str(a)
print(s[5] + s[4] + s[3] + s[2])
```

25. What is the value of `count` after the following code has been executed?

```
s = "He said he saw Henry."
count = s.count("he")
```

- (a) 0
- (b) 1
- (c) 2
- (d) 3
- (e) None of the above.

26. What is the value of `s2` after the following has been executed?

```
s1 = "Grok!"
s2 = s1[: -2] + "w."
```

- (a) Grow.
- (b) kw.
- (c) k!w
- (d) None of the above.

27. What is the value of `s2` after the following has been executed?

```
s1 = "Grok!"
s2 = s1[-2] + "w."
```

- (a) Grow.
- (b) kw.
- (c) k!w
- (d) None of the above.

28. What is the value of `s2` after the following has been executed?

```
s1 = "Grok!"
s2 = s1[-2 :] + "w."
```

- (a) kw.
- (b) Grow.
- (c) k!w
- (d) None of the above.