Strings

Standard difficulty · 20 questions · 40 marks · Time: 37 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. Strings in Python are:

(a) stored as numbers only

(b) limited to 255 characters

(c) mutable like lists

(d) immutable: their characters cannot be changed in place

2. What does this program print?

```
s = 'banana'
print(s[-5:])
```

(a) banana **(b)** aa **(c)** nana **(d)** anana

3. What does this program print?

```
s = 'lamp Data'
print(s.upper())
```

(a) lamp Data **(b)** lamp data **(c)** Lamp data **(d)** LAMP DATA

4. What does this program print?

```
s = 'balloon'
print(s.index('l'))
```

(a) Error **(b)** 4 **(c)** 3 **(d)** 2

5. What does this program print?

```
s = 'lamp loop'
print(s.isalnum())
```

(a) Error **(b)** True **(c)** False **(d)** None

6. What does this program print?

```
print(', '.join('book'))
```

(a) k, o, o, b **(b)** b, o, o, k

(c) , b, o, o, k, **(d)** ['b', 'o', 'o', 'k']

7. What does this program print?

```
s = 'cricket'
count = 0
for ch in s:
    if ch in 'aeiou':
        count = count + 1
print(count)
```

(a) 5 **(b)** 2 **(c)** 3 **(d)** 7

8. What happens when this program runs?

```
s = 'book'
s[0] = 'X'
print(s)
```

(a) it stops with a TypeError, because a string cannot be changed in place

(b) it prints Xook

(c) it prints book

(d) it prints Xbook

Section B — Short answer — 8 × 2 = 16 marks

9. What is meant by saying that strings are immutable? Give an example.

10. What does this program print? Give (a) the first line (b) the second.

```
s = 'science'
print(s[:-4])
print(s[::-1])
```

11. What does this program print? Give (a) the first line (b) the second.

```
s = 'computer keyboard'
print(s.count('u'))
print(s.find('te'))
```

12. What does this program print? Give the three lines (a) to (c).

```
s = 'banana'
print(len(s))
print('anq' in s)
print(s.startswith('an'))
```

13. What does this program print? Give (a) the first line (b) the second.

```
s = 'text;byte;note;word'
parts = s.split(';')
print(parts)
print(parts[3])
```

14. This program counts characters. What are (a) u (b) l (c) d at the end?

```
s = 'Painting kitchen calendar 6'
u = l = d = 0
for ch in s:
    if ch.isupper():
        u = u + 1
    elif ch.islower():
        l = l + 1
    elif ch.isdigit():
        d = d + 1
print(u, l, d)
```

15. What does this program print? Give (a) the first line (b) the second.

```
s = 'char file char'
print('::'.join(s.split()))
print(s.replace('char', 'file'))
```

16. What does this program print?

```
s = 'program'
if s == s[::-1]:
    print('Palindrome')
else:
    print('Not a palindrome')
```

Section C — Word problems — 4 × 4 = 16 marks

17. Explain the string operations of concatenation, repetition, membership and slicing with an example of each.

18. What does this program print? Give the four lines (a) to (d).

```
s = 'sunflower picture'
print(len(s))
print(s[3:6])
print(s.count('o'))
print(s.replace('sunflower', 'new'))
```

19. Trace this program. What are (a) v (b) c (c) up (d) sp at the end?

```
s = 'Teacher calendar 755 Language'
v = c = up = sp = 0
for ch in s:
    if ch.isalpha():
        if ch.lower() in 'aeiou':
            v = v + 1
        else:
            c = c + 1
    if ch.isupper():
        up = up + 1
    if ch.isspace():
        sp = sp + 1
print(v, c, up, sp)
```

20. What does this program print?

```
s = 'python village mountain'
words = []
for w in s.split():
    words.append(w[::-1])
print(' '.join(words))
```

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Answer key

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Q	Answer	Working
1	**(d) immutable: their characters cannot be changed in place**	—
2	**(d) anana**	start is included, stop is not; a negative index counts from the end
3	**(d) LAMP DATA**	upper() changes every letter to a capital
4	**(d) 2**	indexes start at 0; the first 'l' is at 2
5	**(c) False**	isalnum() checks every character of 'lamp loop'
6	**(b) b, o, o, k**	join() puts the separator between the characters
7	**(b) 2**	the vowels in 'cricket'
8	**(a) it stops with a TypeError, because a string cannot be changed in place**	strings are immutable
9	**A string cannot be changed in place: s[0] = 'X' is a TypeError; a new string must be made, e.g. s = 'X' + s[1:].**	—
10	**(a) sci; (b) ecneics**	index: s0 c1 i2 e3 n4 c5 e6
11	**(a) 1; (b) 5**	count() counts; find() gives the first index
12	**(a) 6; (b) False; (c) False**	len() counts characters; in checks for the text; startswith() checks the beginning
13	**(a) ['text', 'byte', 'note', 'word']; (b) word**	split(';') cuts at every ';'
14	**(a) 1; (b) 22; (c) 1**	spaces are none of the three
15	**(a) char::file::char; (b) file file file**	join() puts the separator between the parts; replace() changes every occurrence
16	**Not a palindrome**	s[::-1] is 'margorp'
17	**'ab' + 'cd' = 'abcd'; 'ab' * 2 = 'abab'; 'b' in 'abc' is True; 'python'[1:4] = 'yth'.**	—
18	**(a) 17; (b) flo; (c) 1; (d) new picture**	the space counts as a character
19	**(a) 10; (b) 13; (c) 2; (d) 3**	v: vowels, c: consonants, up: capitals, sp: spaces; digits are not letters
20	**nohtyp egalliv niatnuom**	each word reversed, in the same order