Quiz: Regex Language

1. How many matches are there for the pattern in the text?

   Pattern: aa

   Text: aaa

   a. 1
   b. 2
   c. 0

2. How many matches are there for the pattern in the text?

   Pattern: apple

   Text: pineapple apples

   a. 0
   b. 2
   c. 1

3. How many matches are there for the pattern in the text?

   Pattern: apple

   Text: PineApple Apple

   a. 0
   b. 2
   c. 1

4. How many matches are there for the pattern in the text?

   Pattern: \bapple\b

   Text: pineapple apples

   a. 0
   b. 1
   c. 2

5. How many matches are there for the pattern in the text?

   Pattern: apple\b

   Text: Pineapple apple

   a. 0
   b. 1
   c. 2

6. How many matches are there for the pattern in the text?

   Pattern: \w+

   Text: Pine-apple Juice

   a. 0
   b. 1
   c. 2
   d. 3

7. Which one these patterns will match alternating sequence of letter and digit? For example, it should match this text *a1b2c3d4*

   a. [a-z][0-9]
   b. \w+
   c. [a-z][0-9]+
   d. ([a-z]\d)+

8. Select a pattern that matches a 4-character string that has an alternating sequence of letter and digit. For example: it should match *a1b2* but not this text *a1b2c3*

   a. ([a-z][0-9]){2}
   b. ([a-z][0-9]){4}
   c. [a-z]{2}[0-9]{2}
   d. \b([a-z][0-9]){2}\b

9. How many matches will be found for this pattern and text?

   Pattern: \blog

   Text: catalog of log

   a. 0
   b. 1
   c. 2

10. How many matches will be found for this pattern and text?

    Pattern: log\b

    Text: catalog of log

    a. 0
    b. 1
    c. 2

11. Write a pattern that matches US Postal Code (Zip Code) format: *88888-8888* where, 8 represents a digit. The first five digits are required followed by an optional dash and four digits

    a. ^\d{5}-\d{4}$
    b. ^\d{5}-\d{4}?$
    c. ^\d{5}(-\d{4})$
    d. ^\d{5}(-\d{4})?$

12. Write a pattern that matches Canadian Postal Code format. Format is: *A8A 8A8* where, A represents a letter and 8 represents a digit

    a. ^A8A 8A8$
    b. (?i)^A8A 8A8$
    c. (?i)^[a-z][0-9][a-z] [0-9][a-z][0-9]$
    d. (?i)^([a-z][0-9][a-z]){2}$

13. Write a pattern that matches Indian Postal Code format. Format is: *888 888* where, 8 represents a digit

    a. ^\d{3} \d{3}$
    b. ^\d{3}{2}$
    c. ^\d{3}\s\d{3}$
    d. ^\d\d\d\d\d\d$

14. Write a pattern to match one or more digits.

For example, if the text is:

1

123

12345

ABCD123

It should match 1, 123, 12345. However, it should not match ABCD123

    a. \b\d+\b
    b. \d+
    c. (?i)\b[^a-z]\d+\b

15. Extend the previous quiz pattern to now match an optional decimal point and two digits. For example, the pattern should match *88888.88* and *88888* but not match *88888A88*

    a. \b\d+(\.\d{2})\b
    b. \b\d+(\.\d{2})?\b
    c. \b\d+(.\d{2})\b
    d. \b\d+(.\d{2})?\b

16. Extend the previous quiz to now match an optional comma followed by 3 digits. This optional comma and 3-digit group can appear as many times as possible.

For example:

The pattern should now match:

123

12345.78

1,234.78

1,234,567.89

0.59

a. \b\d+(,\d{3})*(\.\d{2})?\b
b. \b\d+(,\d{3})(\.\d{2})\b
c. \b\d+(,\d{3})+(\.\d{2})?\b
d. \b\d+(,\d{3})?(\.\d{2})?\b

Answers

1. a. After a successful match, regex engine starts the check from subsequent characters
2. b. Since pattern is looking for a literal string anywhere, it will match apple in both words
3. a. Comparison is case sensitive and needs to be explicitly turned off
4. a. Pattern is looking for a word apple and not partial words.
5. c. This pattern looks for a word break only at the end
6. d. w+ matches one or more word characters. in the above text, - and space are not word characters. So, it will find three words
7. d. This captures a repeating group of letter and digit
8. d. This checks for alternating sequence of letter and digit inside a word boundary
9. b. It is looking for a word boundary and log
10. c. Pattern is looking for log followed by word boundary
11. d
12. c
13. a
14. a
15. b
16. a