Intekglobal

JavaScript

Exercise 2 (Chapter 7)
Time Take to finish: 16 hours

- 1. Write a string for each case that would satisfy at least one match for the following regular expressions:
 - a. .abc
 - b. a+b?!!1{4}
 - c. .{3}a\.b
 - d. \w
 - e. \s
 - f. \d
 - g. .
 - h. [abc]
 - i. (abc)
 - j. [a-zA-Z_\\$\.]+[A-Za-z_\\$0-9\.]*@[a-zA-Z_\\$\.]+[a-zA-Z_\\$0-9\.]*\.(com|net|org){1}
 - k. $([0oOn]{1}(_|\s)[0oOn]{1})$

Estimated Time: 2 hour.

- 2. Write a regular expression that can match:
 - A. Date format <Month-string> <##day>, <####year>
 - a. examples:
 - i. September 29, 1972
 - ii. February 99, 0001
 - iii. June 04, 3000
 - B. A letter followed OR preceded by a number
 - a. example
 - i. A52
 - ii. d747
 - iii. 27X
 - iv. v2
 - C. txt, java, and cpp files with names consisting of only letters
 - a. example
 - i. test.java
 - ii. program.cpp
 - iii. newReport.txt
 - D. A 5 character palindrome
 - a. example
 - i. abcba
 - ii. 12321
 - iii. _1a1_
 - E. All words that consist of letters from b to y only
 - a. example

input: "Bee zapp Crow Eagle Zorro mouse Ape you"
output: ["Bee","Crow","mouse","you"]

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- F. All the non nested tag elements in a string
 - a. example

input: "ls 4 < -1/12 true? The answer will
surprise you."

output: 4 < -1/12, answer, surprise

Estimated Time: 6 hour.

3. Write a program that will:

- A. Shift cyclically every letter of the alphabet by one, and the numbers as well.
 - a. example
 - i. aBc = bCd
 - ii. xyz = yza
 - iii. aK89 = bL90
- B. From a reasonably sized text, have a user defined string be replaced by that same string with a hashtag. That hashtag should be a link for a twitter search as well.
 - a. example
 - i. String: yolo
 - 1. ... should never use #yolo for any reason...
- C. Using regular expressions, create a function that will match all word palindromes of any size in a text.

Optional: Input a paragraph of text and translate it to 1337 \$|>34|<

Estimated Time: 8 hour.