Regular expressions

Exercices

### Exercice 1 : Joker

1. Which of the following will match this regular expression **/a.b.c./**. Underline the matches.
   1. "abc"
   2. "aabbcc"
   3. "acbbac"
   4. "Abbccc"
   5. "a1b2c3d4"
2. Which of the following does match the regular expression **/.\../**. Underline all the matches
   1. "…"
   2. "…..a"
   3. "9.5351"
   4. "3-1415"

### Exercice 2 : Sets

1. What regular expression matches the following:
   1. "abcz"
   2. "abc0 "
   3. "abc1"
   4. "abc2"

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Indicate which proposition matches this regex: **/[mkc][dlf][0-9]\.[0-9]:[^ijk]/**
   1. "ml5.4:k"
   2. "p2.0.l"
   3. "kf2.0:m"
   4. "kf1.8:2"

### Exercice 3 : Quantifiers

1. Underline the matches **/[aA]b?[c-f]+/**
   1. "abcccccc"
   2. "Abdd "
   3. "adf1"
   4. "azz"
2. Indicate which proposition matches this regex: /fo{2,8}/
   1. "fo"
   2. "foo"
   3. "foooooooo"

### Exercice 4 : Capturing groups and alternation

1. Underline the matches of **/([bB]oo|foo)\*h?/**
   1. "Booh"
   2. "foofoofoo"
   3. "h"
   4. ""
2. Which regex extracts the name and the color in a separate capture group?
   1. "A blue flower"
   2. "The yellow sun"
   3. "A red square "
   4. "This brown squirrel "

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How to rewrite the above answer using only named groups?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How to be selective with "A", "The" and "This" and mute this group?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Exercice 5 : Short notation

Rewrite the following expression using the short notation. Make as short as possible.

/(?:[a-zA-Z0-9]{1,})[\x20\t][(][0-9]{0,}[)]/

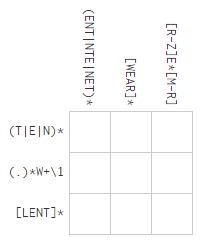
Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Exercice 6 : How to match the name of each item

<?xml version="1.0" encoding="UTF-8"?>  
<!DOCTYPE example EX "example.dtd">  
<content>  
 <item>  
 <name>foo</name>  
 <id>23</id>  
 </item>  
 <item>  
 <name>bar</name>  
 <id>42</id>  
 </item>  
</content>

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### Exercice 7 : Solve this crossword



### Exercice 8 : Which lines are matched?

/^1?$|^(11+?)\1+$/

1  
11  
111  
1111  
11111  
111111  
1111111  
11111111  
111111111  
1111111111  
11111111111  
111111111111

What can you conclude?

Answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_