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 CSE 373
 Minor Homework 2: Regular Expressions

1)

balloons	balloo
FOODY	no match
bookstore	booksto
"Look"	"Loo
PoolRoOm	PoolRo

2)

$\backslash b(((0[13578]|1[02])\vee(((0[1-9])|([1-2]\backslash d))|3[0-1]))|((0[469]|11)\vee(((0[1-9])|([1-2]\backslash d))|30))|((02)\vee((0[1-9])|([1\backslash d])|(2[0-8])))|(\vee(((19)|(20))\backslash d\backslash d)))\backslash b$

3)

$\backslash b(\backslash d^*[02468])-\backslash d\{3\}-(\backslash d^*[13579])\backslash b$

4)

$\backslash b(((25[0-5])|(2[0-4]\backslash d)|([1\backslash d\backslash d])|([1-9]\backslash d)|\backslash d)\.)\{3\}((25[0-5])|(2[0-4]\backslash d)|([1\backslash d\backslash d])|([1-9]\backslash d)|\backslash d)\backslash b$

5)

(a) $/"([^\"]^*)"/$

- any or no sequence of characters, except for a double quote, between two doubles quotes

ex: "kjhkjh"

ex: ""

(b) $/[-+]\? \backslash d+(\backslash \. \backslash d^*)\? F \backslash b /$

- Zero or one occurrences of either + or -,
- followed by one or more digits between 0-9 inclusive,
- followed by one or no dot,
- If dot provided then optionally followed by any number of digits,
- followed by a F,
- followed by a word bound

ex: -4.015F

ex: 4F

ex: 4.F

ex: 00000000000000.000000000F

(c) `/(\D{2,}).*\[1\]/`

- 2 or more occurrences of any non digit characters (let's call this sequence of characters as group 1),
- Optionally followed by any number of characters except for a newline,
- followed by [,
- followed by the exact characters used in group 1,
- followed by]

Ex: abcd9[abcd]

In this example abcd would be group 1

(d) `/((.*?)\d)\s2/`

- any number of characters, even just the empty string, except for a newline (let's call this sequence of characters group 2),
- followed by a single digit between 0-9 inclusive,
- followed by a single white space character (newline, tab, space, etc.),
- followed by the exact characters used in group 2

ex: op9 op

In this example op is group 2

(e) `/^[0-9]+\d+([\-*V]\=|([+]{2})|[-]{2}));$/`

- must start with one or more instances of a number between 0-9 inclusive,

- followed by a forward slash,
- followed by one or more instances of a number between 0-9 inclusive,
- followed by only one of the following: += or -= or *= or /= or ++ or --
- must end with a semicolon

ex: 0/0+=;

ex: 0/0-=-;

ex: 0/0*=-;

ex: 0/0/=;

ex: 0/0++;

ex: 0/0--;