Homework lecture 13

String processing

1. Which of the following matches regular expresion /<[^>]+>/

1) <an xml tag>
2) <opentag> <closetag>
3) </closetag>
4) <>
5) <with attribute=”77”>

2. Which of the following matches regular expression /a.[bc]+/

1) abc
2) abbbbbbbb
3) azc
4) abcbcbcbc
5) ac
6) azccbbbbcbccc

3. Which of the following matches regular expression /(very)+(fat)?(tall|ugly) man/

1) very fat man
2) fat tall man
3) very very fat ugly man
4) very very very tall man

4. Write a regular expression that matches only and exactly strings of form “*abc.def.ghi.jkx*”, where each variable *a, b, c, d, e, f, g, h, i, j, k, x* can be any single character except the newline.

   For example: “its.not.the.cat”, “098.750.454.210”, “!.!.!.!.!.!.!.!”

   The dot (.) in regex matches anything except for a newline.

5. Write a regular expression that matches these numbers:

   - (123) 456 7899
   - (123).456.7899
   - (123)-456-7899
   - 123-456-7899
   - 123 456 7899
   - 1234567899

6. Write a regular expression that validate strings which:
    - can consist of numbers, lowercase and uppercase characters.
    - can consist of separators: hyphens, underscores, spaces.
    - do not have two consecutive separators.
    - do not have separators at the start or the end.