**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”>

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

1)      abc

2)      abbbbbbbb

3)      azc

4)      abcbcbcbc

5)      ac

6)      azccbbbbcbccc

1. 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

1. 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.*

1. Write a regular expression that matches these numbers:

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

1. 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.