CS699 Autumn 2013 Quiz-1 (The Mirror)

YOUR NAME
YOUR ROLL NUMBER

August 22, 2013

In this quiz, you will be generating, using latex, a PDF file which looks similar to this PDF file having the questions. You will also be storing all your answers in an svn repository you created for the quiz.

1. **Question-1: 2 marks**

   - Create a local svn repository (which will be accessed using "file://") within the directory "svn-repo-quiz1".
   - You are given a directory called "quiz1-to-import", with some relevant files. Import this directory into svn (its contents will also be imported).
   - Checkout the imported directory inside a working copy directory called "svn-work-quiz1". This is where you will be answering all the questions.
   - You will finally be submitting a tgz of your svn repository as well as the working directory. As you go along answering the following questions, add the relevant files (only the relevant files; e.g. don't add dvi files) to svn and keep committing changes. Whenever you commit changes, make sure to add a short but meaningful log message. Submission instructions are in the next section.

2. **Question-2: 1 mark**
   Start editing your main latex file "quiz1-answer.tex", with the text content as in the questions PDF file (you can cut-paste this part). Generate the PDF version of the latex file as "quiz1-answer.pdf". This answer PDF should be similar in content to the PDF file with the questions (exact locations of page breaks, exact locations of figures are not important). Add "quiz1-answer.pdf" into the svn repository and commit.

3. **Question-3: 1 mark**
   Write the following equation in Latex.
   $e^x = \Sigma_{i=0}^{\infty} \frac{x^i}{i!}$

4. **Question-4: 2+0.5 marks**
   Plot the following graph using gnuplot by editing the file "cdf-plot.gnu". Embed it in latex as eps or pdf; the exact position of the figure is not important. The relevant data is given in files "a1.csv" and "a2.csv"

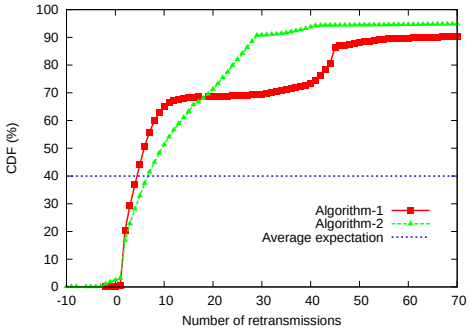

Figure 1: CDF of the number of retransmissions

5. **Question-5: 2+0.5 marks**
   Draw the butterfly diagram shown, using any drawing software. Note the symmetry in the figure. Embed it in latex as eps of pdf; ; the exact position of the figure is not important.

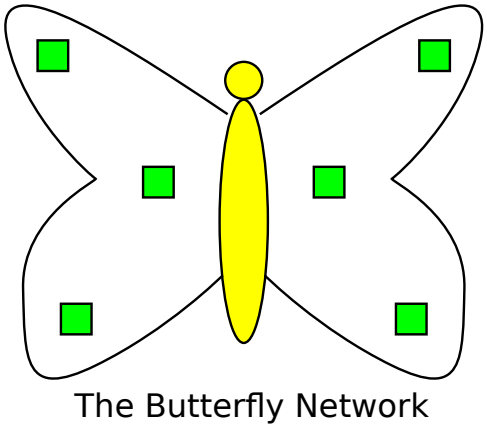

Figure 2: Depiction of a symmetric network graph

6. **Question-6: 1 mark**
   Refer to the above graph and figure using Latex cross-reference in the following sentence.
   "Figure 1 is a CDF plot while Figure 2 is a butterfly".

7. **Optional [1 HP]**
   As shown in the next page, have latex divide the page into two columns.

Submission Instructions

1. Commit to the svn repository from the working directory
2. From within the relevant directory, run "bash prepare-upload.sh"
3. Upload the file forupload.tgz created

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