Computer Science 384   June 26, 2017
St. George Campus   University of Toronto

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Homework Assignment #3: Bayesian Networks
Due: July 30, 2017 by 11:59 PM

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Silent Policy: *A silent policy will take effect 24 hours before this assignment is due, i.e. no question about this assignment will be answered, whether it is asked on the discussion board, via email or in person.*

Late Policy: 10% per day after the use of 3 grace days.

Total Marks: This part of the assignment represents 10% of the course grade.

Handing in this Assignment

<u>*What to hand in on paper:*</u> Nothing.

<u>*What to hand in electronically:*</u> You must submit your assignment electronically through Google Forms. The assignment will consist of 5 modules, each worth 20 points. An email will be sent to you containing the URLs to the 5 modules you will have to complete. You will use your student ID to log in. Different versions are assigned to each student, so make sure you only complete the modules assigned to you.

The modules will be released according to the following schedule. You will be receiving an email on that day with the URLs to the module.

Module	Topic	Release date
1	Probability Review	June 28
2	Basic Bayes Nets	June 28
3	D-Separation, Independence	June 30
4	Variable elimination (variable ordering, polytrees)	July 10
5	Variable elimination (full query)	July 10

Each module will consist of a mix of multiple choice, true/false, and calculation questions. The calculation questions in Module 1 and 2 will provide immediate feedback. As soon as you start typing in the form, you will know if you got the correct answer. If your answers are incorrect for calculation questions on these Modules, you will not be able to submit the quiz. You can, however, choose to leave the field blank and the submission will work.

For multiple choice and true/false questions, feedback on the questions will only given after submission. Once you submit, click on the "View accuracy" link. You will be able to see which questions you answered correctly/incorrectly.

After Module 2, you will not receive immediate feedback on calculation questions. Calculation results will contribute to your overall mark for the module, however.

Each module is worth 20 points. The score of your final submission will determine your final grade. For each module, you are given 3 attempts without penalty. The next 5 attempts will result in a penalty of 1 point. Attempts beyond the 8th will each result in a penalty of 2 points. For example, let's say that on

your 9th attempt of Module 4, you obtain a score of 18 points. In this case, your final score will be 18 - (5 × 1) - (1 × 2) = 11 points).

A test module is available for you to familiarize yourself with the quiz platform:

`https://goo.gl/forms/RVmygpArPJ6qQXGh2`

Clarification Page: Important corrections (hopefully few or none) and clarifications to the assignment will be posted on the Assignment 3 Clarification page:

`http://www.teach.cs.toronto.edu/~csc384h/summer/Assignments/A3/a3_faq.html`.

You are responsible for monitoring the A3 Clarification page.

Help Sessions: There will be help sessions for this assignment. Dates and times for these sessions will be posted to the course website and to Piazza.

Questions: Questions about the assignment should be posted on Piazza:

`https://piazza.com/utoronto.ca/summer2017/csc384`.

If you have a question of a personal nature, please email the A3 TA, Zhicong Lu, at luzhc at cs dot toronto dot edu or the instructor, Sonya Allin, at sonyaa at teach dot cs dot toronto dot edu placing [CSC384] and A3 in the subject line of your message.

GOOD LUCK!