

# CS181O Homework Assignment X (*replace X with the homework #*)

*put your name here*

January 21, 2016

*Please cite all the resources you used and all people you spoke to or worked with in order to complete this homework assignment. (You need not include the instructor.) Enter NULL if the statement does not apply to this homework.*

## **In the process of finishing this homework:**

1. I had conversations about the contents and solutions of this assignment with the following people:  
*put in names here*
2. I consulted the following resources, such as books, articles, webpages: *put in resources here*
3. I did not look at the answers of any other students.
4. I did not provide my answers to other students.

Signature: \_\_\_\_\_ (*please type your name here as signature*)

*your solution starts here*

1. including figures

In some homework assignments, you may need to include a figure, which you can draw using any graph editing tool or draw it on paper and take a picture with a phone.

Here (Figure 1) is an example that shows you how to embed a figure using LaTeX. Please note that LaTeX automatically floats the image to the next page when there is not enough space left on the current page to accommodate it. Therefore, using a caption and label to identify the figure makes it easier for us to know which figure in your solution is for which question.

2. Writing formulas

Formulas can be written easily using latex. For example:

A **Nondeterministic FSM (NDFSM)**  $M$  is quintuple  $(K, \Sigma, \Delta, s, A)$ , where

- $K$  is a finite set of states
- $\Sigma$  is the input alphabet
- $s \in K$  is the start state
- $A \subseteq K$  is the set of accepting states
- $\Delta$  is the transition function. It is a finite subset of  $(K \times (\Sigma \cup \{\epsilon\})) \times K$ .

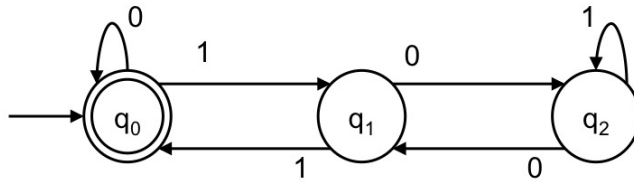


Figure 1: A sample figure for problem 1

You can find many useful LaTeX symbols online, for instance at <https://en.wikibooks.org/wiki/LaTeX/Mathematics>.

To make your life easier, I will include the LaTeX version of assignments along with posting the pdf. This will allow you to emulate how things are written. Also, don't forget to look at the references on LaTeX at the links page of the course syllabus at [http://www.cs.pomona.edu/~kim/CSC181S16/csc181\\_4.html](http://www.cs.pomona.edu/~kim/CSC181S16/csc181_4.html).