CSC301 Assignment #1

Due Friday 9/25 in class.

Problem 2.1

Give a BNF grammar as we have done in class for each of the descriptions below. Also show that you can derive a number of positive examples of the language in the constructed grammar and also show that you are not able to derive a set of negative examples in the grammar.

b) The set of all string consisting of an uppercase letter followed by zero or more additional characters, each of which is either an uppercase letter or one of the digits 0 through 9.

c) The set of all string consisting of one or more instances of the letter a.

g) The set of all strings consisting of one or more instances of the letter a with a semicolon after each one.

j) The set of all strings consisting of an open bracket (the symbol ‘[‘) followed by a list of one or more digits separated by commas, followed by a closing bracket (the symbol ‘]’).