

CSC301 Assignment #1

Due Sunday 9/17 in Sakai.

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 ']').