

COMP 412
Spring 2014
Written Homework #1

Due date : March 17, 2014

1. For each of the following specifications in lex, give a regular expression that describes the language of possible outputs. Assume that the alphabet for all input strings $\Sigma = \{a, A, b, B\}$.

i) Specification 1:

[aA]	{printf("x");}
[aA][aA]	{printf("y");}
[bB]	{printf("z");}

ii) Specification 2:

[aA][bB]	{printf("p");}
([aA]+)([bB]+)	{printf("q");}
[aA]	{printf("r");}
[bB]	{printf("s");}