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CS4280

Homework1

1. The BNF grammer of the problem 1 is:

<for\_loop> ::= for ( <expression> ; <expression> ; <expression> ) {<statement>} | for( <expression> ; <expression> ; <expression> ) {<block>}

2. <a> --> (101)\*

<b> --> (00)\*

<c> --> (01)+

<d> --> <a><b><c>

3. The valid string above is as many as the size of the memory that hold.

4. There are 9 valid strings for the above that fit in 7 bits and there are

3 valid strings exactly 7 bits.