

CS 4280 – Programming Languages

Homework 2

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1) $\langle \text{for loop} \rangle ::= \text{for } (\langle \text{expression} \rangle ; \langle \text{expression} \rangle ; \langle \text{expression} \rangle) \langle \text{statement} \rangle \mid \langle \text{block} \rangle$

2) $S \Rightarrow (101)^*(00)^*(01)$

3) Infinite amount of the strings because of the $(101)^*$ and $(00)^*$.

4)

- - - - -01
- - - 0101
- 010101
- 000001
- 000101
- - 10101
- - - 0001
- 1010101
- 1010001

9 Total