

CSCI 400 – Programming Language Concepts – Spring 2019
HW 02 (15 points)

This assignment is to be turned in through Blackboard.

1. The BNF grammar below is similar to the grammar we discussed in class, only the numbers in this grammar are not limited to single digits. Using the this grammar, give a derivation for each of the following sentences.
 - (a) (5 points) 7
 - (b) (5 points) 14
 - (c) (5 points) 32, 6, 7

BNF Grammar

```
< list >    → < number >
< list >    → < list > , < number >
< number >  → < digit >
< number >  → < number > < digit >
< digit >   → 0
< digit >   → 1
< digit >   → 2
< digit >   → 3
< digit >   → 4
< digit >   → 5
< digit >   → 6
< digit >   → 7
< digit >   → 8
< digit >   → 9
```