BNF Worksheet

(If you have some time, try to draw the syntax diagrams for each question on the back.)

1. BNF for Natural Numbers

   e.g. 1, 2, 3, ….

   Hint: 0 does not count as a Natural Number, but we still need it to make numbers like 10, 20, 1098, 40908, etc.

2. BNF for Integers

   e.g. …., -2, -1, 0, 1, 2, ….

   Hint: Notice we need both positive and negative numbers.

3. BNF for Unsigned Integers

   e.g. 0, 1, 2, 3, ….

   Hint: We no longer need to distinguish negative and positive numbers and we do count 0 as an unsigned integer.