Karim and Engie’s C-Minus ENBF

**Legend:**

Orange represents terminals

**[ ]** ⇒ Optional

**{ }** ⇒ Zero or more times

**|**  ⇒ Or

**Rules:**

1. program ⇒ program ID; declaration-list compound-stmt
2. declaration-list ⇒ declaration **{** declaration **}**
3. declaration ⇒ var-declaration
4. var-declaration ⇒ type-specifier ID;
5. type-specifier ⇒ int **|** float
6. stmt ⇒ expression-stmt**|**selection-stmt**|**iteration-stmt**|**read-stmt**|**write-stmt**|**compound-stmt
7. compound-stmt ⇒ { **{** stmt **}** }
8. expression-stmt ⇒ let var = expression;
9. selection-stmt ⇒ if ( expression ) stmt **[** else stmt **]**
10. iteration-stmt ⇒ while ( expression ) stmt
11. var ⇒ ID
12. expression ⇒ additive-expression **[** relop additive-expression **]**
13. relop ⇒ <= **|** < **|** > **|** >= **|** == **|** !=
14. additive-expression ⇒ term **{** addop term **}**
15. addop ⇒ + **|** -
16. term ⇒ factor **{** mulop factor **}**
17. mulop ⇒ \* **|** /
18. factor ⇒ ( expression ) **|** var **|** FLOAT **|** INT
19. write-var ⇒ expression **|** STRING
20. write-stmt ⇒ write write-var **{**, write-var**}**;
21. read-stmt ⇒ read ID **{**, ID**}**;