Program -> Definition

Definition -> Data\_Definition Definition | lambda

Data\_Definition -> Type Identifier Another\_Def

Another\_Def -> , Identifier Identifier\_List ; | ( Parameters ) { Statement } | ;

Identifier\_List -> , Identifier ID\_List | lambda

Parameters -> Type Identifier Parameters2 | lambda

Parameters2 -> , Type Identifier Parameters2 | lambda

Type -> **int** | **float | void**

Statement -> Expression **;** Statement| **if (** identifier Expression2 **)** Statement | **else** Statement | **while (** identifier Expression2 **)** Statement | **return** Expression **;**  | **{** Statement **}** Statement| Data\_Definition Statement | | ; Statement |**lambda**

Expression -> Identifier Expression2 |

**cout <<** primary Expression2 |  
 **cin >>** identifier Expression2 |

Primary Expression2

Expression2 -> < Expression Expression2 |

>Expression Expression2 |

+ Expression Expression2 |

- Expression Expression2 |

\* Expression Expression2 |

/ Expression Expression2 |

= Expression Expression2 |

**(** Argument\_List **)** |

**lambda**

Primary -> Identifier | num | **(** Expression **)**

Argument\_List -> identifier Expression3 Argument\_List\_2 | **lambda**

Argument\_List\_2 -> , identifier Expression3 Argument\_List\_2 | **lambda**

Expression3 -> Expression2 | ,

**SetDeclared in Parameters, Parameters2,**