**CONTEXT FREE GRAMMAR**

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| 1. | <program> | → | <global_declaration> spawn void base() { <base_prod> } <user_function> |
| 2. | <global_declaration> | → | <global_var> <global_declaration> |
| 3. | <global_declaration> | → | <global_comp> <global_declaration> |
| 4. | <global_declaration> | → | <global_tower> <global_declaration> |
| 5. | <global_declaration> | → | λ |
| 6. | <global_var> | → | inter <gv_inter>; |
| 7. | <global_var> | → | bloat <gv_bloat>; |
| 8. | <global_var> | → | ping <gv_ping>; |
| 9. | <global_var> | → | pool <gv_pool>; |
| 10. | <gv_inter> | → | Identifier <gv_inter_tail> |
| 11. | <gv_inter_tail> | → | <add_gv_inter_assign> <add_gv_inter_tail> |
| 12. | <gv_inter_tail> | → | <G_inter_array_dec> |
| 13. | <G_inter_array_dec> | → | [InterLiteral] <G_inter_1D_tail> |
| 14. | <G_inter_1D_tail> | → | = { <G_inter_element> <G_add_inter_1D> } |
| 15. | <G_inter_1D_tail> | → | [InterLiteral] <G_inter_2D_tail> |
| 16. | <G_inter_1D_tail> | → | λ |
| 17. | <G_inter_element> | → | InterLiteral |
| 18. | <G_add_inter_1D> | → | , <G_inter_element> <G_add_inter_1D> |
| 19. | <G_add_inter_1D> | → | λ |
| 20. | <G_inter_2D_tail> | → | = { { <G_inter_element> <G_add_inter_1D> } <G_add_inter_2D> } |
| 21. | <G_inter_2D_tail> | → | λ |
| 22. | <G_add_inter_2D> | → | , {<G_inter_element> <G_add_inter_1D>} <G_add_inter_2D> |

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| 23. | <G_add_inter_2D> | → | λ |
| 24. | <add_gv_inter_assign> | → | = InterLiteral |
| 25. | <add_gv_inter_assign> | → | λ |
| 26. | <add_gv_inter_tail> | → | , Identifier <add_gv_inter_val_tail> |
| 27. | <add_gv_inter_tail> | → | λ |
| 28. | <add_gv_inter_val_tail> | → | = InterLiteral <add_gv_inter_tail> |
| 29. | <add_gv_inter_val_tail> | → | λ |
| 30. | <gv_bloat> | → | Identifier <gv_bloat_tail> |
| 31. | <gv_bloat_tail> | → | <add_gv_bloat_assign> <add_gv_bloat_tail> |
| 32. | <gv_bloat_tail> | → | <G_bloat_array_dec> |
| 33. | <G_bloat_array_dec> | → | [InterLiteral] <G_bloat_1D_tail> |
| 34. | <G_bloat_1D_tail> | → | = { <G_bloat_element> <G_add_bloat_1D> } |
| 35. | <G_bloat_1D_tail> | → | [InterLiteral] <G_bloat_2D_tail> |
| 36. | <G_bloat_1D_tail> | → | λ |
| 37. | <G_bloat_element> | → | BloatLiteral |
| 38. | <G_add_bloat_1D> | → | , <G_bloat_element> <G_add_bloat_1D> |
| 39. | <G_add_bloat_1D> | → | λ |
| 40. | <G_bloat_2D_tail> | → | = { { <G_bloat_element> <G_add_bloat_1D> } <G_add_bloat_2D> } |
| 41. | <G_bloat_2D_tail> | → | λ |
| 42. | <G_add_bloat_2D> | → | , { <G_bloat_element> <G_add_bloat_1D> } <G_add_bloat_2D> |
| 43. | <G_add_bloat_2D> | → | λ |
| 44. | <add_gv_bloat_assign> | → | = BloatLiteral |
| 45. | <add_gv_bloat_assign> | → | λ |
| 46. | <add_gv_bloat_tail> | → | , Identifier <add_gv_bloat_val_tail> |

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| 47. | <add_gv_bloat_tail> | → | λ |
| 48. | <add_gv_bloat_val_tail> | | = BloatLiteral <add_gv_bloat_tail> |
| 49. | <add_gv_bloat_val_tail> | | λ |
| 50. | <gv_ping> | → | Identifier <gv_ping_tail> |
| 51. | <gv_ping_tail> | → | <add_gv_ping_assign> <add_gv_ping_tail> |
| 52. | <gv_ping_tail> | → | <G_ping_array_dec> |
| 53. | <G_ping_array_dec> | → | [InterLiteral] <G_ping_1D_tail> |
| 54. | <G_ping_1D_tail> | → | = { <G_ping_element> <G_add_ping_1D> } |
| 55. | <G_ping_1D_tail> | → | [InterLiteral] <G_ping_2D_tail> |
| 56. | <G_ping_1D_tail> | → | λ |
| 57. | <G_ping_element> | → | PingLiteral |
| 58. | <G_add_ping_1D> | → | , <G_ping_element> <G_add_ping_1D> |
| 59. | <G_add_ping_1D> | → | λ |
| 60. | <G_ping_2D_tail> | → | = { { <G_ping_element> <G_add_ping_1D> } <G_add_ping_2D> } |
| 61. | <G_ping_2D_tail> | → | λ |
| 62. | <G_add_ping_2D> | → | , { <G_ping_element> <G_add_ping_1D> } <G_add_ping_2D> |
| 63. | <G_add_ping_2D> | → | λ |
| 64. | <add_gv_ping_assign> | → | = PingLiteral |
| 65. | <add_gv_ping_assign> | → | λ |
| 66. | <add_gv_ping_tail> | → | , Identifier <add_gv_ping_val_tail> |
| 67. | <add_gv_ping_tail> | → | λ |
| 68. | <add_gv_ping_val_tail> | | = PingLiteral <add_gv_ping_tail> |
| 69. | <add_gv_ping_val_tail> | | λ |
| 70. | <gv_pool> | → | Identifier <gv_pool_tail> |

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| 71. | <gv_pool_tail> | → | <add_gv_pool_assign> <add_gv_pool_tail> |
| 72. | <gv_pool_tail> | → | <G_pool_array_dec> |
| 73. | <G_pool_array_dec> | → | [InterLiteral] <G_pool_1D_tail> |
| 74. | <G_pool_1D_tail> | → | = { <G_pool_element> <G_add_pool_1D> } |
| 75. | <G_pool_1D_tail> | → | [InterLiteral] <G_pool_2D_tail> |
| 76. | <G_pool_1D_tail> | → | λ |
| 77. | <G_pool_element> | → | <pool_literal> |
| 78. | <G_add_pool_1D> | → | , <G_pool_element> <G_add_pool_1D> |
| 79. | <G_add_pool_1D> | → | λ |
| 80. | <G_pool_2D_tail> | → | = { { <G_pool_element> <G_add_pool_1D> } <G_add_pool_2D> } |
| 81. | <G_pool_2D_tail> | → | λ |
| 82. | <G_add_pool_2D> | → | , { <G_pool_element> <G_add_pool_1D> } <G_add_pool_2D> |
| 83. | <G_add_pool_2D> | → | λ |
| 84. | <add_gv_pool_assign> | → | = <pool_literal> |
| 85. | <add_gv_pool_assign> | → | λ |
| 86. | <add_gv_pool_tail> | → | , Identifier <add_gv_pool_val_tail> |
| 87. | <add_gv_pool_tail> | → | λ |
| 88. | <add_gv_pool_val_tail> | | = <pool_literal> <add_gv_pool_tail> |
| 89. | <add_gv_pool_val_tail> | | λ |
| 90. | <pool_literal> | → | buff |
| 91. | <pool_literal> | → | debuff |
| 92. | <global_comp> | → | comp <gc_data_type>; |
| 93. | <gc_data_type> | → | inter Identifier <gc_inter_tail> |
| 94. | <gc_data_type> | → | bloat Identifier <gc_bloat_tail> |

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| 95. | <gc_data_type> | → | ping Identifier <gc_ping_tail> |
| 96. | <gc_data_type> | → | pool Identifier <gc_pool_tail> |
| 97. | <gc_inter_tail> | → | = InterLiteral <add_gc_inter_tail> |
| 98. | <gc_inter_tail> | → | <gc_inter_array_dec> |
| 99. | <add_gc_inter_tail> | → | , Identifier <add_gc_inter_val_tail> |
| 100. | <add_gc_inter_tail> | → | λ |
| 101. | <add_gc_inter_val_tail> | | = InterLiteral <add_gc_inter_tail> |
| 102. | <gc_inter_array_dec> | → | [InterLiteral] <gc_inter_1D_tail> |
| 103. | <gc_inter_1D_tail> | → | = { <G_inter_element> <G_add_inter_1D> } |
| 104. | <gc_inter_1D_tail> | → | [InterLiteral] <gc_inter_2D_tail> |
| 105. | <gc_inter_2D_tail> | → | = { { <G_inter_element> <G_add_inter_1D>} <G_add_inter_2D> } |
| 106. | <gc_bloat_tail> | → | = BloatLiteral <add_gc_bloat_tail> |
| 107. | <gc_bloat_tail> | → | <gc_bloat_array_dec> |
| 108. | <add_gc_bloat_tail> | → | , Identifier <add_gc_bloat_val_tail> |
| 109. | <add_gc_bloat_tail> | → | λ |
| 110. | <add_gc_bloat_val_tail> | | = BloatLiteral <add_gc_bloat_tail> |
| 111. | <gc_bloat_array_dec> | → | [InterLiteral] <gc_bloat_1D_tail> |
| 112. | <gc_bloat_1D_tail> | → | = { <G_bloat_element> <G_add_bloat_1D> } |
| 113. | <gc_bloat_1D_tail> | → | [InterLiteral] <gc_bloat_2D_tail> |
| 114. | <gc_bloat_2D_tail> | → | = { { <G_bloat_element> <G_add_bloat_1D> } <G_add_bloat_2D> } |
| 115. | <gc_ping_tail> | → | = PingLiteral <add_gc_ping_tail> |
| 116. | <gc_ping_tail> | → | <gc_ping_array_dec> |
| 117. | <add_gc_ping_tail> | → | , Identifier <add_gc_ping_val_tail> |
| 118. | <add_gc_ping_tail> | → | λ |

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| 119. | <add_gc_ping_val_tail> | | = PingLiteral <add_gc_ping_tail> |
| 120. | <gc_ping_array_dec> | → | [InterLiteral] <gc_ping_1D_tail> |
| 121. | <gc_ping_1D_tail> | → | = { <G_ping_element> <G_add_ping_1D> } |
| 122. | <gc_ping_1D_tail> | → | [InterLiteral] <gc_ping_2D_tail> |
| 123. | <gc_ping_2D_tail> | → | = { { <G_ping_element> <G_add_ping_1D>} <G_add_ping_2D> } |
| 124. | <gc_pool_tail> | → | = <pool_literal> <add_gc_pool_tail> |
| 125. | <gc_pool_tail> | → | <gc_pool_array_dec> |
| 126. | <add_gc_pool_tail> | → | , Identifier <add_gc_pool_val_tail> |
| 127. | <add_gc_pool_tail> | → | λ |
| 128. | <add_gc_pool_val_tail> | | = <pool_literal> <add_gc_pool_tail> |
| 129. | <gc_pool_array_dec> | → | [InterLiteral] <gc_pool_1D_tail> |
| 130. | <gc_pool_1D_tail> | → | = { <G_pool_element> <G_add_pool_1D> } |
| 131. | <gc_pool_1D_tail> | → | [InterLiteral] <gc_pool_2D_tail> |
| 132. | <gc_pool_2D_tail> | → | = { { <G_pool_element> <G_add_pool_1D> } <G_add_pool_2D> } |
| 133. | <global_tower> | → | tower Identifier {{ <tower_var> }} |
| 134. | <tower_var> | → | <gt_data_type><optional_array> Identifier; <add_tower_var> |
| 135. | <add_tower_var> | → | <tower_var> |
| 136. | <add_tower_var> | → | λ |
| 137. | <gt_data_type> | → | inter |
| 138. | <gt_data_type> | → | bloat |
| 139. | <gt_data_type> | → | ping |
| 140. | <gt_data_type> | → | pool |
| 141. | <base_prod> | → | <local_declaration> <base_prod> |
| 142. | <base_prod> | → | <statement> <base_prod> |

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| 143. | <base_prod> | → | λ |
| 144. | <local_declaration> | → | <local_var> |
| 145. | <local_declaration> | → | <local_comp> |
| 146. | <local_declaration> | → | <local_tower> |
| 147. | <local_var> | → | inter  <lv_inter>; |
| 148. | <local_var> | → | bloat <lv_bloat>; |
| 149. | <local_var> | → | ping <lv_ping>; |
| 150. | <local_var> | → | pool <lv_pool>; |
| 151. | <lv_inter> | → | Identifier <lv_inter_tail> |
| 152. | <lv_inter_tail> | → | <add_lv_inter_assign>  <add_lv_inter_tail> |
| 153. | <lv_inter_tail> | → | <L_inter_array_dec> |
| 154. | <lv_inter_value> | → | <math_expression> |
| 155. | <math_expression> | → | <math_operand><math_tail_expression> |
| 156. | <math_operand> | → | ( <math_expression> ) |
| 157. | <math_operand> | → | inter(<inter_conversion_value>) |
| 158. | <math_operand> | → | bloat(<bloat_conversion_value>) |
| 159. | <math_operand> | → | InterLiteral |
| 160. | <math_operand> | → | BloatLiteral |
| 161. | <math_operand> | → | Identifier<value_type> |
| 162. | <math_tail_expression> | → | <math_operator><math_operand><math_tail_expression> |
| 163. | <math_tail_expression> | → | λ |
| 164. | <math_operator> | → | + |
| 165. | <math_operator> | → | - |
| 166. | <math_operator> | → | * |
| 167. | <math_operator> | → | / |

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| 168. | <math_operator> | → | % |
| 169. | <inter_conversion_value> | → | PingLiteral |
| 170. | <inter_conversion_value> | → | <math_expression> |
| 171. | <inter_conversion_value> | → | hold() |
| 172. | <value_type> | → | [ <index_value> ] <2D_index_value> |
| 173. | <value_type> | → | .Identifier |
| 174. | <value_type> | → | (<argument>) |
| 175. | <value_type> | → | λ |
| 176. | <index_value> | → | <math_expression> |
| 177. | <2D_index_value> | → | [ <index_value> ] |
| 178. | <2D_index_value> | | λ |
| 179. | <argument> | → | <literal_value> <additional_args> |
| 180. | <argument> | → | Identifier<value_type> <additional_args> |
| 181. | <argument> | → | <builtin_func_call> <additional_args> |
| 182. | <argument> | → | λ |
| 183. | <literal_value> | → | InterLiteral |
| 184. | <literal_value> | → | BloatLiteral |
| 185. | <literal_value> | → | PingLiteral |
| 186. | <literal_value> | → | <pool_literal> |
| 187. | <additional_args> | → | , <argument> |
| 188. | <additional_args> | → | λ |
| 189. | <builtin_func_call> | → | inter(<inter_conversion_value>) |
| 190. | <builtin_func_call> | → | bloat(<bloat_conversion_value>) |
| 191. | <builtin_func_call> | → | pool(<pool_conversion_value>) |
| 192. | <builtin_func_call> | → | ping(<ping_conversion_value>) |

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| 193. | <L_inter_array_dec> | → | [<index_value>] <L_inter_1D_tail> |
| 194. | <L_inter_1D_tail> | → | = { <L_inter_element> <L_add_inter_1D> } |
| 195. | <L_inter_1D_tail> | → | [<index_value>] <L_inter_2D_tail> |
| 196. | <L_inter_1D_tail> | → | λ |
| 197. | <L_inter_element> | → | <lv_inter_value> |
| 198. | <L_add_inter_1D> | → | , <L_inter_element> <L_add_inter_1D> |
| 199. | <L_add_inter_1D> | → | λ |
| 200. | <L_inter_2D_tail> | → | = { { <L_inter_element> <L_add_inter_1D>} <L_add_inter_2D> } |
| 201. | <L_inter_2D_tail> | → | λ |
| 202. | <L_add_inter_2D> | → | , { <L_inter_element> <L_add_inter_1D>} <L_add_inter_2D> |
| 203. | <L_add_inter_2D> | → | λ |
| 204. | <add_lv_inter_assign> | → | = <lv_inter_value> |
| 205. | <add_lv_inter_assign> | → | λ |
| 206. | <add_lv_inter_tail> | → | , Identifier <add_lv_inter_val_tail> |
| 207. | <add_lv_inter_tail> | → | λ |
| 208. | <add_lv_inter_val_tail> | | = <lv_inter_value> <add_lv_inter_tail> |
| 209. | <add_lv_inter_val_tail> | | λ |
| 210. | <lv_bloat> | → | Identifier <lv_bloat_tail> |
| 211. | <lv_bloat_tail> | → | <add_lv_bloat_assign> <add_lv_bloat_tail> |
| 212. | <lv_bloat_tail> | → | <L_bloat_array_dec> |
| 213. | <lv_bloat_value> | → | <math_expression> |
| 214. | <bloat_conversion_value> | → | PingLiteral |
| 215. | <bloat_conversion_value> | → | <math_expression> |
| 216. | <bloat_conversion_value> | → | hold() |

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| 217. | <L_bloat_array_dec> | → | [<index_value>] <L_bloat_1D_tail> |
| 218. | <L_bloat_1D_tail> | → | = { <L_bloat_element> <L_add_bloat_1D> } |
| 219. | <L_bloat_1D_tail> | → | [<index_value>] <L_bloat_2D_tail> |
| 220. | <L_bloat_1D_tail> | → | λ |
| 221. | <L_bloat_element> | → | <lv_bloat_value> |
| 222. | <L_add_bloat_1D> | → | , <L_bloat_element> <L_add_bloat_1D> |
| 223. | <L_add_bloat_1D> | → | λ |
| 224. | <L_bloat_2D_tail> | → | = { { <L_bloat_element> <L_add_bloat_1D> } <L_add_bloat_2D> } |
| 225. | <L_bloat_2D_tail> | → | λ |
| 226. | <L_add_bloat_2D> | → | , { <L_bloat_element> <L_add_bloat_1D>} <L_add_bloat_2D> |
| 227. | <L_add_bloat_2D> | → | λ |
| 228. | <add_lv_bloat_assign> | → | = <lv_bloat_value> |
| 229. | <add_lv_bloat_assign> | → | λ |
| 230. | <add_lv_bloat_tail> | → | , Identifier <add_lv_bloat_val_tail> |
| 231. | <add_lv_bloat_tail> | → | λ |
| 232. | <add_lv_bloat_val_tail> | | = <lv_bloat_value> <add_lv_bloat_tail> |
| 233. | <add_lv_bloat_val_tail> | | λ |
| 234. | <lv_ping> | → | Identifier <lv_ping_tail> |
| 235. | <lv_ping_tail> | → | <add_lv_ping_assign> <add_lv_ping_tail> |
| 236. | <lv_ping_tail> | → | <L_ping_array_dec> |
| 237. | <lv_ping_value> | → | ping(<ping_conversion_value>) |
| 238. | <lv_ping_value> | → | hold() |
| 239. | <lv_ping_value> | → | <string_concat> |
| 240. | <ping_conversion_value> | → | InterLiteral |

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| 241. | <ping_conversion_value> | → | BloatLiteral |
| 242. | <ping_conversion_value> | → | <pool_literal> |
| 243. | <ping_conversion_value> | → | <string_concat> |
| 244. | <string_concat> | → | <string_value> <string_tail_concat> |
| 245. | <string_value> | → | Identifier<value_type> |
| 246. | <string_value> | → | PingLiteral |
| 247. | <string_value> | → | ping(<ping_conversion_value>) |
| 248. | <string_tail_concat> | → | + <string_concat> |
| 249. | <string_tail_concat> | → | λ |
| 250. | <L_ping_array_dec> | → | [<index_value>] <L_ping_1D_tail> |
| 251. | <L_ping_1D_tail> | → | = { <L_ping_element> <L_add_ping_1D> } |
| 252. | <L_ping_1D_tail> | → | [<index_value>] <L_ping_2D_tail> |
| 253. | <L_ping_1D_tail> | → | λ |
| 254. | <L_ping_element> | → | <lv_ping_value> |
| 255. | <L_add_ping_1D> | → | , <L_ping_element> <L_add_ping_1D> |
| 256. | <L_add_ping_1D> | → | λ |
| 257. | <L_ping_2D_tail> | → | = { { <L_ping_element> <L_add_ping_1D>} <L_add_ping_2D> } |
| 258. | <L_ping_2D_tail> | → | λ |
| 259. | <L_add_ping_2D> | → | , { <L_ping_element> <L_add_ping_1D>} <L_add_ping_2D> |
| 260. | <L_add_ping_2D> | → | λ |
| 261. | <add_lv_ping_assign> | → | = <lv_ping_value> |
| 262. | <add_lv_ping_assign> | → | λ |
| 263. | <add_lv_ping_tail> | → | , Identifier <add_lv_ping_val_tail> |
| 264. | <add_lv_ping_tail> | → | λ |

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| 265. | <add_lv_ping_val_tail> | | = <lv_ping_value> <add_lv_ping_tail> |
| 266. | <add_lv_ping_val_tail> | | λ |
| 267. | <lv_pool> | → | Identifier <lv_pool_tail> |
| 268. | <lv_pool_tail> | → | <add_lv_pool_assign> <add_lv_pool_tail> |
| 269. | <lv_pool_tail> | → | <L_pool_array_dec> |
| 270. | <lv_pool_value> | → | <general_expression> |
| 271. | <pool_conversion_value> | → | <pool_convert> |
| 272. | <pool_conversion_value> | → | Identifier<value_type> |
| 273. | <pool_conversion_value> | → | hold() |
| 274. | <pool_convert> | → | PingLiteral |
| 275. | <pool_convert> | → | <pool_literal> |
| 276. | <general_expression> | → | <general_operand> <general_tail_expression> |
| 277. | <general_operand> | → | ( <general_expression> ) |
| 278. | <general_operand> | → | ! <general_operand> |
| 279. | <general_operand> | → | inter(<inter_conversion_value>) |
| 280. | <general_operand> | → | bloat(<bloat_conversion_value>) |
| 281. | <general_operand> | → | InterLiteral |
| 282. | <general_operand> | → | BloatLiteral |
| 283. | <general_operand> | → | PingLiteral |
| 284. | <general_operand> | → | <pool_literal> |
| 285. | <general_operand> | → | Identifier<value_type> |
| 286. | <general_operand> | → | pool(<pool_conversion_value>) |
| 287. | <general_operand> | → | ping(<ping_conversion_value>) |
| 288. | <general_tail_expression> | → | <general_operator><general_operand> <general_tail_expression> |
| 289. | <general_tail_expression> | → | λ |

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|---|---|---|---|
| 290. | <general_operator> | → | <math_operator> |
| 291. | <general_operator> | → | && |
| 292. | <general_operator> | → | \|\| |
| 293. | <general_operator> | → | == |
| 294. | <general_operator> | → | != |
| 295. | <general_operator> | → | > |
| 296. | <general_operator> | → | < |
| 297. | <general_operator> | → | >= |
| 298. | <general_operator> | → | <= |
| 299. | <L_pool_array_dec> | → | [<index_value>] <L_pool_1D_tail> |
| 300. | <L_pool_1D_tail> | → | = { <L_pool_element> <L_add_pool_1D> } |
| 301. | <L_pool_1D_tail> | → | [<index_value>] <L_pool_2D_tail> |
| 302. | <L_pool_1D_tail> | → | λ |
| 303. | <L_pool_element> | → | <lv_pool_value> |
| 304. | <L_add_pool_1D> | → | , <L_pool_element> <L_add_pool_1D> |
| 305. | <L_add_pool_1D> | → | λ |
| 306. | <L_pool_2D_tail> | → | = { { <L_pool_element> <L_add_pool_1D>} <L_add_pool_2D> } |
| 307. | <L_pool_2D_tail> | → | λ |
| 308. | <L_add_pool_2D> | → | , { <L_pool_element> <L_add_pool_1D>} <L_add_pool_2D> |
| 309. | <L_add_pool_2D> | → | λ |
| 310. | <add_lv_pool_assign> | → | = <lv_pool_value> |
| 311. | <add_lv_pool_assign> | → | λ |
| 312. | <add_lv_pool_tail> | → | , Identifier <add_lv_pool_val_tail> |
| 313. | <add_lv_pool_tail> | → | λ |

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|---|---|---|---|
| 314. | <add_lv_pool_val_tail> | | = <lv_pool_value> <add_lv_pool_tail> |
| 315. | <add_lv_pool_val_tail> | | λ |
| 316. | <local_comp> | → | comp <lc_data_type>; |
| 317. | <lc_data_type> | → | inter Identifier <lc_inter_tail> |
| 318. | <lc_data_type> | → | bloat Identifier <lc_bloat_tail> |
| 319. | <lc_data_type> | → | ping Identifier <lc_ping_tail> |
| 320. | <lc_data_type> | → | pool Identifier <lc_pool_tail> |
| 321. | <lc_inter_tail> | → | = <lv_inter_value> <add_lc_inter_tail> |
| 322. | <lc_inter_tail> | → | <lc_inter_array_dec> |
| 323. | <add_lc_inter_tail> | → | , Identifier <add_lc_inter_val_tail> |
| 324. | <add_lc_inter_tail> | → | λ |
| 325. | <add_lc_inter_val_tail> | | = <lv_inter_value> <add_lc_inter_tail> |
| 326. | <lc_inter_array_dec> | → | [<index_value>] <lc_inter_1D_tail> |
| 327. | <lc_inter_1D_tail> | → | = { <L_inter_element> <L_add_inter_1D> } |
| 328. | <lc_inter_1D_tail> | → | [<index_value>] <lc_inter_2D_tail> |
| 329. | <lc_inter_2D_tail> | → | = { { <L_inter_element> <L_add_inter_1D> } <L_add_inter_2D> } |
| 330. | <lc_bloat_tail> | → | = <lv_bloat_value> <add_lc_bloat_tail> |
| 331. | <lc_bloat_tail> | → | <lc_bloat_array_dec> |
| 332. | <add_lc_bloat_tail> | → | , Identifier <add_lc_bloat_val_tail> |
| 333. | <add_lc_bloat_tail> | → | λ |
| 334. | <add_lc_bloat_val_tail> | | = <lv_bloat_value> <add_lc_bloat_tail> |
| 335. | <lc_bloat_array_dec> | → | [<index_value>] <lc_bloat_1D_tail> |
| 336. | <lc_bloat_1D_tail> | → | = { <L_bloat_element> <L_add_bloat_1D> } |
| 337. | <lc_bloat_1D_tail> | → | [<index_value>] <lc_bloat_2D_tail> |

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|---|---|---|---|
| 338. | <lc_bloat_2D_tail> | → | = { { <L_bloat_element> <L_add_bloat_1D> } <L_add_bloat_2D> } |
| 339. | <lc_ping_tail> | → | = <lv_ping_value> <add_lc_ping_tail> |
| 340. | <lc_ping_tail> | → | <lc_ping_array_dec> |
| 341. | <add_lc_ping_tail> | → | , Identifier <add_lc_ping_val_tail> |
| 342. | <add_lc_ping_tail> | → | λ |
| 343. | <add_lc_ping_val_tail> | | = <lv_ping_value> <add_lc_ping_tail> |
| 344. | <lc_ping_array_dec> | → | [<index_value>] <lc_ping_1D_tail> |
| 345. | <lc_ping_1D_tail> | → | = { <L_ping_element> <L_add_ping_1D> } |
| 346. | <lc_ping_1D_tail> | → | [<index_value>] <lc_ping_2D_tail> |
| 347. | <lc_ping_2D_tail> | → | = { { <L_ping_element> <L_add_ping_1D>} <L_add_ping_2D> } |
| 348. | <lc_pool_tail> | → | = <lv_pool_value> <add_lc_pool_tail> |
| 349. | <lc_pool_tail> | → | <lc_pool_array_dec> |
| 350. | <add_lc_pool_tail> | → | , Identifier <add_lc_pool_val_tail> |
| 351. | <add_lc_pool_tail> | → | λ |
| 352. | <add_lc_pool_val_tail> | | = <lv_pool_value> <add_lc_pool_tail> |
| 353. | <lc_pool_array_dec> | → | [<index_value>] <lc_pool_1D_tail> |
| 354. | <lc_pool_1D_tail> | → | = { <L_pool_element> <L_add_pool_1D> } |
| 355. | <lc_pool_1D_tail> | → | [<index_value>] <lc_pool_2D_tail> |
| 356. | <lc_pool_2D_tail> | → | = { { <L_pool_element> <L_add_pool_1D> } <L_add_pool_2D> } |
| 357. | <local_tower> | → | tower Identifier Identifier; |
| 358. | <statement> | → | Identifier<stm_type>; |
| 359. | <statement> | → | <loop_stm> |
| 360. | <statement> | → | <cond_stm> |

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|---|---|---|---|
| 361. | <statement> | → | push(<push_value>); |
| 362. | <statement> | | recall <recall_value>; |
| 363. | <stm_type> | → | <assign_value_type> <assignment> |
| 364. | <stm_type> | → | (<argument>) |
| 365. | <assign_value_type> | → | [ <index_value> ] <2D_index_value> |
| 366. | <assign_value_type> | → | .Identifier |
| 367. | <assign_value_type> | → | λ |
| 368. | <assignment> | → | = <assign_value> |
| 369. | <assign_value> | → | hold() |
| 370. | <assign_value> | → | <general_expression> |
| 371. | <assign_value> | → | { <1D_2D_array> } |
| 372. | <1D_2D_array> | → | <assign_array_element> <add_assign_1D> |
| 373. | <1D_2D_array> | → | { <assign_array_element>  <add_assign_1D> } <add_assign_2D> |
| 374. | <assign_array_element> | → | <general_expression> |
| 375. | <add_assign_1D> | → | , <assign_array_element> <add_assign_1D> |
| 376. | <add_assign_1D> | → | λ |
| 377. | <add_assign_2D> | → | , { <assign_array_element> <add_assign_1D> } <add_assign_2D> |
| 378. | <add_assign_2D> | → | λ |
| 379. | <loop_stm> | → | for <init> <for_keyword> <end> { <content> } |
| 380. | <loop_stm> | → | while ( <condition> ) { <content> } |
| 381. | <loop_stm> | → | do { <content> } while ( <condition> ) |
| 382. | <init> | → | Identifier = <init_value> |
| 383. | <init_value> | | InterLiteral |
| 384. | <init_value> | | Identifier <value_type> |

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|---|---|---|---|
| 385. | <for_keyword> | | up |
| 386. | <for_keyword> | | down |
| 387. | <end> | → | InterLiteral |
| 388. | <end> | → | Identifier <value_type> |
| 389. | <content> | → | <local_declaration><content> |
| 390. | <content> | → | <statement><content> |
| 391. | <content> | → | <loop_terminator><content> |
| 392. | <content> | → | λ |
| 393. | <condition> | → | <general_expression> |
| 394. | <loop_terminator> | → | destroy; |
| 395. | <loop_terminator> | → | commit; |
| 396. | <cond_stm> | → | if (<condition>) <body> <else_clause> |
| 397. | <body> | → | <content_oneline> |
| 398. | <body> | → | { <content> } |
| 399. | <content_oneline> | → | <local_declaration> |
| 400. | <content_oneline> | → | <statement> |
| 401. | <content_oneline> | → | <loop_terminator> |
| 402. | <else_clause> | → | else <body> |
| 403. | <else_clause> | → | λ |
| 404. | <push_value> | → | <string_concat> |
| 405. | <push_value> | → | λ |
| 406. | <recall_value> | → | <general_expression> |
| 407. | <user_function> | → | spawn <spawn_tail><optional_func> |
| 408. | <user_function> | → | λ |
| 409. | <spawn_tail> | → | <spawn_data_type> Identifier (<parameter>) { <user_body> } |

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|---|---|---|---|
| 410. | <optional_func> | → | <user_function> |
| 411. | <optional_func> | → | λ |
| 412. | <spawn_data_type> | → | <data_type> |
| 413. | <spawn_data_type> | → | void |
| 414. | <data_type> | → | inter |
| 415. | <data_type> | → | bloat |
| 416. | <data_type> | → | ping |
| 417. | <data_type> | → | pool |
| 418. | <parameter> | → | <data_type> <optional_array> Identifier <additional_param> |
| 419. | <parameter> | → | λ |
| 420. | <optional_array> | → | [<2D_array>] |
| 421. | <optional_array> | → | λ |
| 422. | <2D_array> | → | , |
| 423. | <2D_array> | → | λ |
| 424. | <additional_param> | → | , <data_type><optional_array> Identifier <additional_param> |
| 425. | <additional_param> | → | λ |
| 426. | <user_body> | → | <local_declaration> <user_body> |
| 427. | <user_body> | → | <statement> <user_body> |
| 428. | <user_body> | → | λ |