

Charlie
metnasile
2C

$\langle \text{id} \rangle \text{ switch } (\langle \text{expression} \rangle) \{ \text{case } \langle \text{literal} \rangle \langle \text{dt_id} \rangle$
 $\{ \text{case } \langle \text{literal} \rangle : \langle \text{dt_id} \rangle \} [\text{default} : \langle \text{dt_id} \rangle$

3.
 $\langle \text{assign} \rangle \rightarrow \langle \text{id} \rangle = \langle \text{expr} \rangle$
 $\langle \text{id} \rangle \rightarrow A|B|C$
 $\langle \text{expr} \rangle \rightarrow \langle \text{term} \rangle * \langle \text{expr} \rangle | \langle \text{term} \rangle$
 $\langle \text{term} \rangle \rightarrow \langle \text{term} \rangle + \langle \text{factor} \rangle | \langle \text{factor} \rangle$
 $\langle \text{factor} \rangle \rightarrow (\langle \text{expr} \rangle) | \langle \text{id} \rangle$

(b) $\langle \text{assign} \rangle \Rightarrow \langle \text{id} \rangle = \langle \text{expr} \rangle$
 $\Rightarrow B = \langle \text{expr} \rangle$
 $\Rightarrow B = \langle \text{id} \rangle * \langle \text{expr} \rangle$
 $\Rightarrow B = C * \langle \text{expr} \rangle$
 $\Rightarrow B = C * (\langle \text{expr} \rangle)$
 $\Rightarrow B = C * (\langle \text{id} \rangle * \langle \text{expr} \rangle)$
 $\Rightarrow B = C * (A * \langle \text{expr} \rangle) \langle \text{id} \rangle + \langle \text{expr} \rangle$

7/5 $\langle \text{assign} \rangle \Rightarrow \langle \text{id} \rangle = \langle \text{expr} \rangle$
 $\Rightarrow A = \langle \text{expr} \rangle$
 $\Rightarrow A = \langle \text{term} \rangle$
 $\Rightarrow A = \langle \text{term} \rangle * \langle \text{factor} \rangle$
 $\Rightarrow A = \langle \text{factor} \rangle * \langle \text{factor} \rangle$
 $\Rightarrow A = \langle \text{expr} \rangle * \langle \text{factor} \rangle$
 $\Rightarrow A = (\langle \text{expr} \rangle + \langle \text{term} \rangle) * \langle \text{factor} \rangle$
 $\Rightarrow A = (\langle \text{term} \rangle + \langle \text{term} \rangle) * \langle \text{factor} \rangle$
 $\Rightarrow A = (\langle \text{factor} \rangle + \langle \text{term} \rangle) * \langle \text{factor} \rangle$
 $\Rightarrow A = (\langle \text{id} \rangle + \langle \text{term} \rangle) * \langle \text{factor} \rangle$
 $\Rightarrow A = (A + \langle \text{term} \rangle) * \langle \text{factor} \rangle$
 $\Rightarrow A = (A + \langle \text{factor} \rangle) * \langle \text{factor} \rangle$
 $\Rightarrow A = (A + \langle \text{id} \rangle) * \langle \text{factor} \rangle$
 $\Rightarrow A = (A + B) * \langle \text{factor} \rangle$
 $\Rightarrow A = (A + B) * \langle \text{id} \rangle$
 $\Rightarrow A = (A + B) * C$

