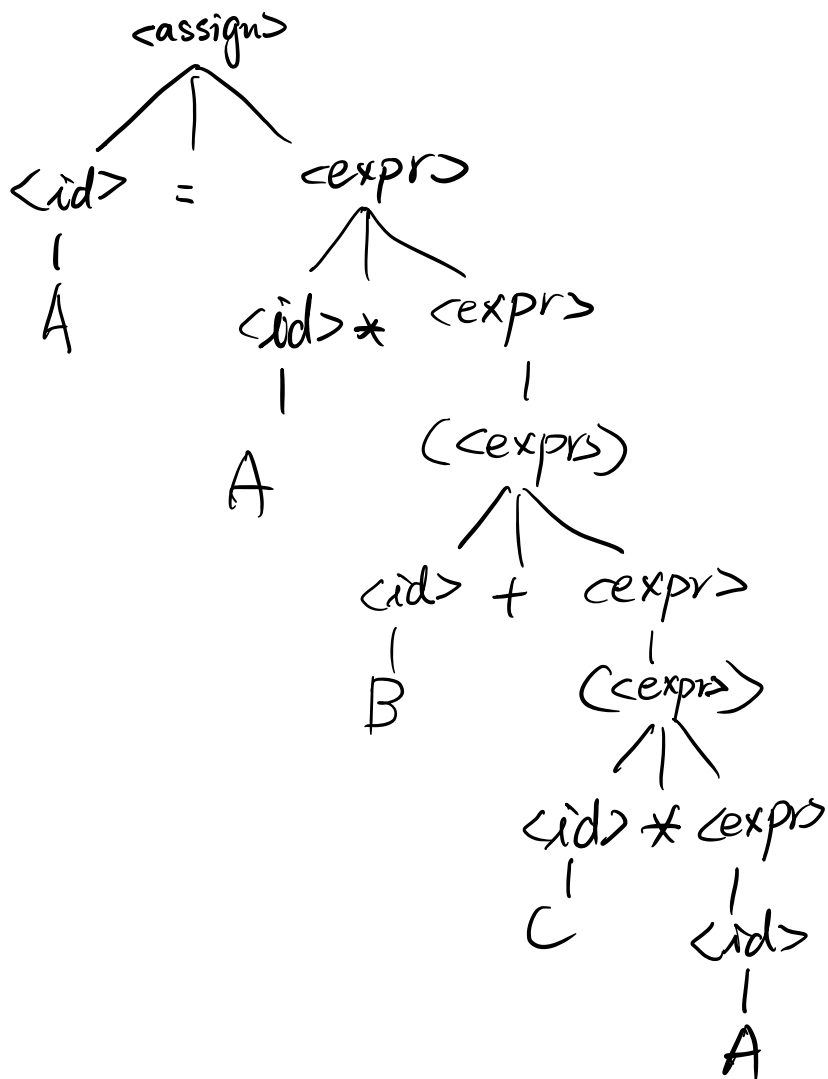
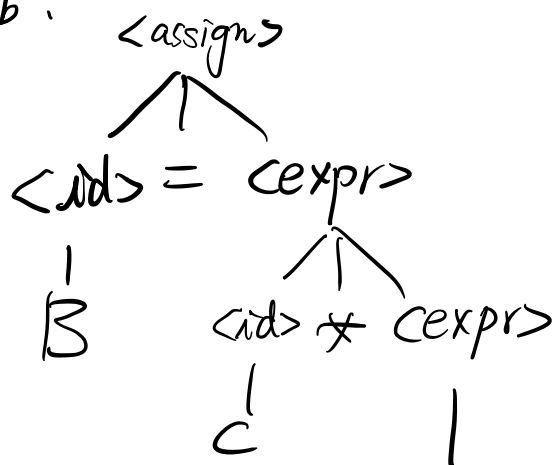
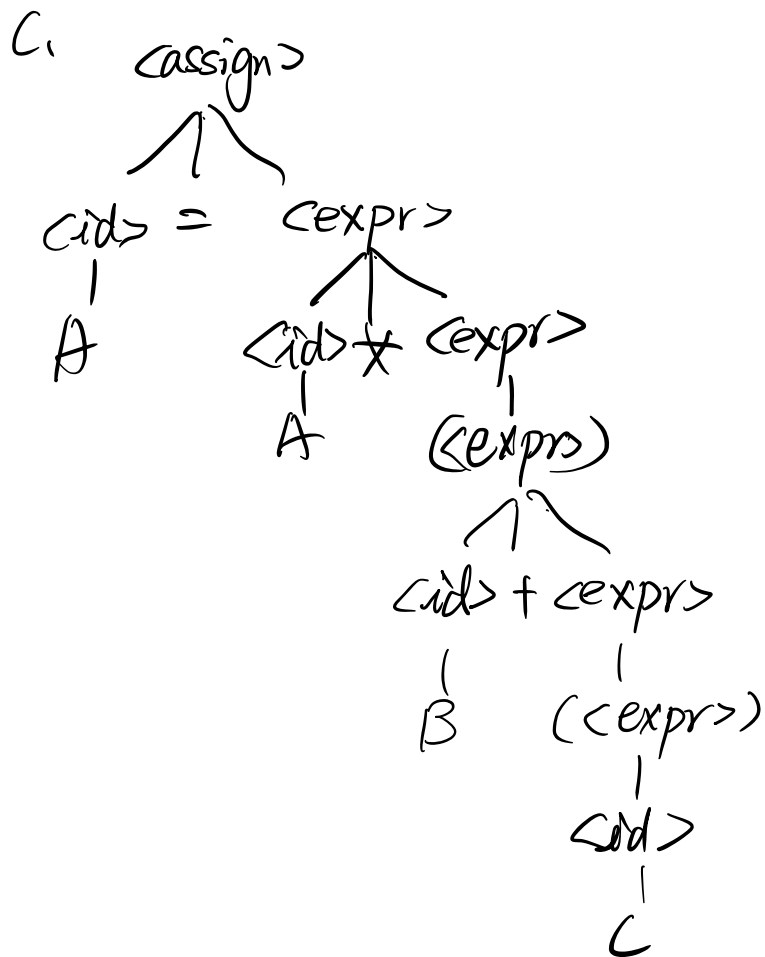
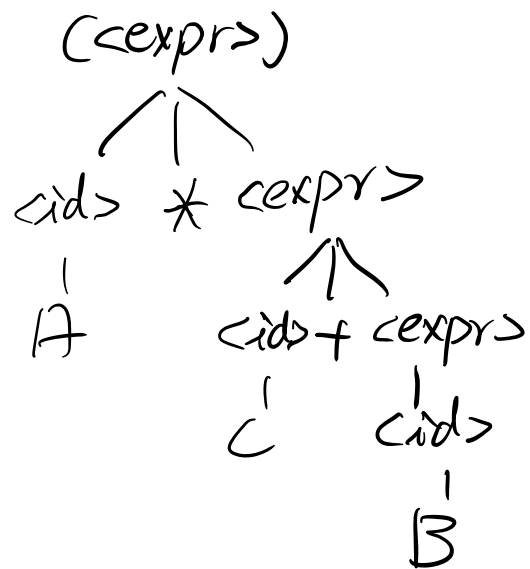


6.
a



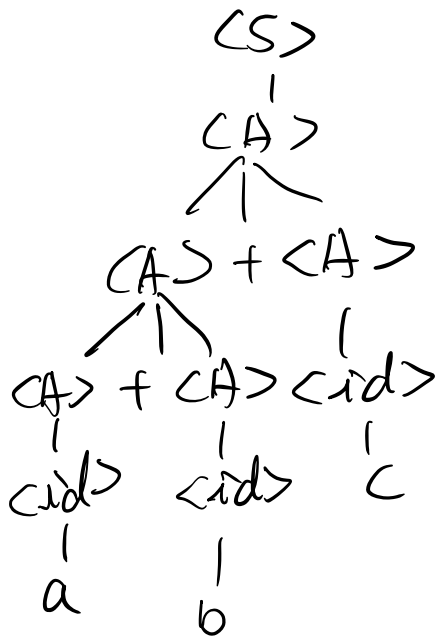
b.



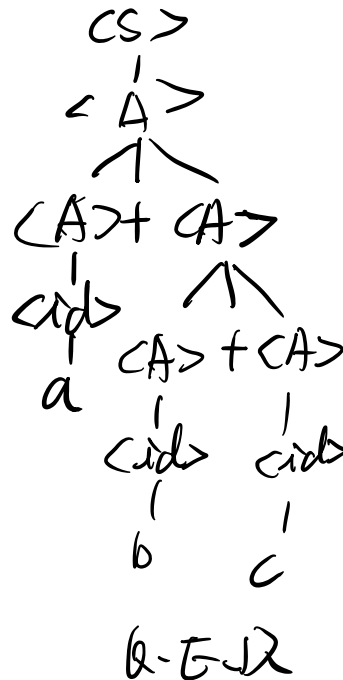


8. expression $\Rightarrow a + b + c$

Parse Tree 1:



Parse Tree 2:



9.

$\langle \text{assign} \rangle \rightarrow \langle \text{id} \rangle = \langle \text{expr} \rangle$

$\langle \text{id} \rangle \rightarrow A | B | C$

$\langle \text{expr} \rangle \rightarrow \langle \text{expr} \rangle + \langle \text{term} \rangle | \langle \text{term} \rangle$

$\langle \text{term} \rangle \rightarrow \langle \text{term} \rangle * \langle \text{neg} \rangle | \langle \text{neg} \rangle$

$\langle \text{neg} \rangle \rightarrow - \langle \text{neg} \rangle | \langle \text{factor} \rangle$

$\langle \text{factor} \rangle \rightarrow (\langle \text{expr} \rangle) | \langle \text{id} \rangle$

10.

a bulk of 'a' characters (≥ 1) concatenate
with a bulk of 'b' characters (≥ 1)
concatenate with a ' ϵ ' character.

11.

$$\langle S \rangle \rightarrow \langle A \rangle \mid \langle A \rangle b \langle S \rangle$$

$$\langle A \rangle \rightarrow a \langle A \rangle \mid ab \langle A \rangle$$