

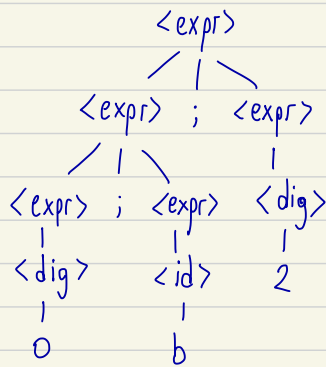
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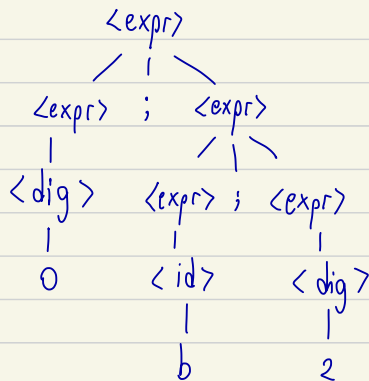
Assign-6-written

- ① Ambiguous because we could write 2 different parse trees for $\langle \text{expr} \rangle$.
For example using $\langle \text{expr} \rangle = 0;b;2$

Parse tree #1



Parse tree #2



2

$\langle id \rangle ::= a|b|c|\dots|z$

$\langle dig \rangle ::= 0|1|2|\dots|9$

$\langle expr \rangle ::= () | \langle dig \rangle | \langle id \rangle$

| let $\langle id \rangle = \langle expr \rangle$ in $\langle expr \rangle$

| begin $\langle expr \rangle$ end

| (); $\langle expr \rangle$

| $\langle dig \rangle$; $\langle expr \rangle$

| $\langle id \rangle$; $\langle expr \rangle$

| let $\langle id \rangle = \langle expr \rangle$ in $\langle expr \rangle$; $\langle expr \rangle$

| begin $\langle expr \rangle$ end ; $\langle expr \rangle$

3

I can now write only 1 parse tree as shown below
(using $expr = 0;b;2$)

