

2. Augment the following BNF to write an attribute grammar. Assume the only possible variable types are integer and float. The language rules are as follows:

- 1) The types of variables in an expression do not have to be the same. The type of the expression result is that of the first (or leftmost) variable in the expression.

➤ $\langle \text{assign} \rangle \rightarrow \langle \text{var} \rangle = \langle \text{exp} \rangle$

$\langle \text{var} \rangle_{\text{type} = \text{int}} = \langle \text{expr} \rangle_{\text{type} = \text{int}}$

$\langle \text{var} \rangle_{\text{type} = \text{float}} = \langle \text{expr} \rangle_{\text{type} = \text{int/float}}$