*School of Software Engineering*

UNIVERSITYOF SCIENCE AND TECHNOLOGY OF CHINA

**Compilers, Spring 2024**

**Quiz 3: Abstract Syntax Trees**

Name: Id:

1. Write down data structure defining the following grammar. This grammar represents a small subset of the C programming language. (You should use Java as you did in the lab.)

***stm* -> if (*exp*) *stm* else *stm***

**| while (*exp*) *stm***

**| for (*exp*; *exp*; *exp*) *stm***

***exp* -> (*exp*) | *exp*+*exp* | *exp*\**exp***

**| ID=*exp* | ID | NUM**