*School of Software Engineering*

UNIVERSITYOF SCIENCE AND TECHNOLOGY OF CHINA

**Compilers, Spring 2024**

**Quiz 6: Code Generation**

Name: Id:

1. (10 points) Recall that we have discussed code generation technique for a small subset of the Java bytecode:

**s -> push NUM | pop x | unwind n | load x**

**| store x | add | sub | mult | div | call f**

**| ret**

Given this Java code:

**int f(){**

**int x, y, z;**

**x = 1+(2+(3+(4+(5+6))));**

**y = g(x, 7);**

**z = y/3;**

**return z;**

**}**

**int g(int x, int y){**

**return x+y;**

**}**

write down the Java bytecode generated from a recursive decedent code generator.