Reading 14: Memory Management

# Exercise 1: Summarize

Stack memory stores local variables and function call information for each thread, heap memory dynamically stores objects shared among threads, current heap links are references to these objects, and garbage collection automatically reclaims memory from unused objects.

# Exercise 2: Illustrate

public class Main {

// Static variable

static int sVar;

public static void main(String[] args) {

// Local variable

int lVar;

// Method invocation

int x = add(1, 2);

// Object variable

Main oVar = new Main();

}

// Method with two parameters

public static int add(int p1, int p2) {

return p1 + p2;

}

}

# Exercise 3: Inquire

Can a memory area (heap, stack) grow so large as to overlap another memory section? What errors would occur?