1.

import stanford.karel.\*;

public class KarelCreateInsideBorder extends SuperKarel {

public void run() {

turnLeft();

move();

turnRight();

for(int i = 0; i < 4; i++) {

makeOneBorder();

nextBorderPosition();

}

}

private void makeOneBorder() {

move();

while (frontIsClear()) {

if (noBeepersPresent()) {

putBeeper();

}

move();

}

}

private void nextBorderPosition() {

turnRight();

turnRight();

move();

turnRight();

}

}

2a.

5.0 / 4 - 4 / 5 → 1.25

7 < 9 - 5 && 3 % 0 == 3 → false

"B" + 8 + 4 → “B84”

2b

The 1st number is: 78

The 2nd number is: 73

3.

import acm.program.\*;

public class Problem3 extends ConsoleProgram {

public void run() {

System.out.println("This program finds the two largest integers in a");

System.out.println("list. Enter values, one per line, using a 0 to");

System.out.println("signal the end of the list.");

int firstNum = -1;

int secondNum = -1;

while (true) {

int input = readInt();

if (input == SENTINEL) break;

if (input > firstNum) {

secondNum = firstNum;

firstNum = input;

} else if (input > secondNum) {

secondNum = input;

}

}

System.out.println("The largest value is " + firstNum);

System.out.println("The second largest value is " + secondNum);

}

private static final int SENTINEL = 0;

}

5.

public String removeDoubledLetters(string word) {

String newWord = "";

for(int i = 0; i < word.length(); i++) {

char ch = word.charAt(i);

if(i == 0 || ch !=word.charAt(i - 1)) {

result += ch;

}

}

return result;

}