Do in your group of 3. If something would cause an error, state what it is and then comment out that line in the main method and continue with the rest.

public static void main(String[] args) {

String s = "fdljk";

System.out.println(beam(s, 0, s.length() - 1)); // returns false

System.out.println(derp("Four score and seven years ago", "o"));

System.out.println(foo("abcd"));

System.out.println(turn(5));

System.out.println(sip("communicate"));

System.out.println(face(3));

// What is the difference between these two method calls?

excuse("Hello");

supply("Hello");

}

public static boolean beam(String s, int i, int f) {

if (i < f) {

if (s.charAt(i) == s.charAt(f)) {

return beam(s, i + 1, f - 1);

} else {

return false;

}

} else {

return true;

}

}

public static int derp(String s, String t) {

if (s.equals("") || s.indexOf(t) == -1)

return 0;

return derp(s.substring(s.indexOf(t) + 1), t) + 1;

}

public static String foo(String s) {

if (s.length() == 0) {

return s;

}

s = s.substring(1) + s.substring(0, 1);

return bar(s);

}

public static String bar(String s) {

return foo(s.substring(0, s.length() / 2)) + s;

}

public static int turn(int n) {

if (n > 100)

return n;

return pour((int) Math.floor(Math.pow(n, n)));

}

public static int pour(int n) {

if (n > 100) {

return n;

}

return n / 2 + 1;

}

public static int sip(String s) {

if (s.length() == 0)

return 0;

int index = (int) (Math.random() \* s.length());

s = s.substring(0, index) + s.substring(index + 1);

return sip(s) + 2;

}

public static int face(int n) {

if (n == 0)

return 1;

else

return face(n + 1);

}

public static void excuse(String s) {

if (s.length() == 0)

return;

System.out.println(s.substring(s.length() - 1));

excuse(s.substring(0, s.length() - 1));

}

public static void supply(String s) {

if (s.length() == 0)

return;

supply(s.substring(0, s.length() - 1));

System.out.println(s.substring(s.length() - 1));

}

Do these on your own. If something would cause an error, state what it is and then comment out that line in the main method and continue with the rest.

public static void main(String[] args){

System.out.println(mystery1(5));

System.out.println(mystery2(30));

mystery3(123456);

System.out.println();

System.out.println(mystery4(32));

System.out.println(mystery5("today", 1));

System.out.println(mystery6(23));

System.out.println(mystery7(25));

}

public static int mystery1 (int b){

if (b == 0)

return 0;

if (b % 2 == 0)

return mystery1(b-1) + 3;

else

return mystery1(b-1) + 2;

}

public static int mystery2(int value){

if (value <= 10)

return value \* 3;

return value + mystery2(mystery2(value/5));

}

public static void mystery3(int x){

if ((x / 10 != 0))

mystery3(x/10);

System.out.print(x%10);

}

public static String mystery4(int val){

String dig = "" + (val %3);

if (val/3 > 0)

return dig + mystery4(val/3);

return dig;

}

public static String mystery5(String str, int index){

if (index >= str.length())

return str;

return str + mystery5(str.substring(index), index + 1);

}

public static int mystery6(int n){

return mystery6 (n, 0);

}

public static int mystery6(int n, int i){

if (i > n)

return i;

return mystery6(n/2,i+n%7);

}

public static int mystery7(int n){

if (n < 2)

return n;

return mystery8(n-1)+1;

}

public static int mystery8(int n){

if (n < 2)

return n;

return mystery7(n-2) + 2;

}