For each question 1 - 10, what will be printed?

1)

for (int i = 10; i > 0; i--){

if (i%2==1)

System.out.print(i);

}

97531

2)

for (int i = 0; i < 20; i+=4){

System.out.print(i);

}

0481216

3)

for (int i = 10; i <=20; i++){

if (i%2==0)

System.out.print(i);

if (i%7==0)

System.out.print(i);

}

10121414161820

4)

String team = "Trojans";

for (int i = team.length() - 1; i >= 0; i--)

System.out.print(team.substring(i,i+1));

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5)

String word = "Flyers";

String letter = "";

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

letter = word.substring(i, i+1);

if (letter.equals("s") || letter.equals("y") || letter.equals("e"))

System.out.print(letter);

}

yes

6)

int max = 10, min = 0;

while (max > min){

if (max > 5)

max -= 3;

min += 3;

}

System.out.println(max);

4

7)

int something = 0;

for (int i = 1; i <= 5; i++){

something += i;

}

System.out.println(something);

15

8)

int sum = 0;

for (int i = 1; i < 4; i++)

for (int j = 1; j < 4; j++){

sum = i + j;

}

System.out.println(sum);

6

9)

String school = "";

boolean done = false;

while (!done){

if (school.equals("")){

school += "Uni";

} else if (school.equals("Uni"))

school += "versity ";

else if ( school.equals("University ")) {

school += "High School";

}

else

done = true;

}

System.out.println(school);

University High School

10)

String foo = "";

for (int i = 1; i < 4; i++){

for (int j = 1; j <= i; j++)

foo += "$";

System.out.println(foo);

}

$

$$$

$$$$$$

11) What is printed by the method call mystery1(10,8)? How about mystery1(8,10)?

public static void mystery1(int j, int k){

for(int i = j%k; i < j + k; i++){

j++;

k--;

i+=(i%(k-j));

}

System.out.println("j = " + j + " & k = " + k);

}

j = 14 & k = 4

/0 error

12) What is returned by the method call mystery2(“placement”)? Describe in words what this method does.

public static String mystery2(String str) {

String result = "";

for (int i=0; i<str.length(); i+=2) {

result = result + str.substring(i, i+1);

}

return result;

}

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mystery2 prints every other letter.

13) What is returned by the method call mystery3(“call”)? Describe in words what this method does.

public static String mystery3(String str) {

String result = "";

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

result = result + str.substring(0, i+1);

}

return result;

}

ccacalcall

mystery 3 prints the parameter multiple times starting with just the first character and adding an additional character each time.

14) What is returned by the method call mystery4(“Hello Billy, Bobby, Susan, and Carly!”, “y”)? Describe in words what the method does.

public static int mystery4(String words, String character) {

words = words.toLowerCase();

character = character.toLowerCase();

int count = 0;

for (int i = 1; i < words.length() + 1; i++){

String sub = words.substring(i);

int index = sub.indexOf(character);

if (index > -1){

if (index == sub.length()-1 || index + 1 < sub.length() && (sub.substring(index + 1, index + 2).compareTo("a")<0 || sub.substring(index + 1, index + 2).compareTo("z")>0 )){

count++;

}

i += index;

}

else{

i = words.length();

}

}

return count;

}

3

mystery4 searches for words in the parameter words that end with character.

15) What is printed by the method call mystery5()?

static void mystery5(){

for (int i = 1; i <= 7; i++) {

for (int j = 1; j <= i; j++)

System.out.print(j);

for (int k = 7 - i; k >= 1; k--)

System.out.print("\*");

System.out.println("");

}

}

1\*\*\*\*\*\*

12\*\*\*\*\*

123\*\*\*\*

1234\*\*\*

12345\*\*

123456\*

1234567

16) What is returned by the method call mystery3(1234321, 2)? Describe in words what this method does.

public static boolean mystery3(int number, int digit) {

if (number == digit){

return true;

}

while (number > 0){

if (number%10==digit){

return true;

}

number/=10;

}

return false;

}

true

mystery3 checks to see if number contains digit.