COE 212

Engineering Programming

Summer 2018

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Quiz III

**Problem I**

1. What output is produced by the following code fragment?

int val1=3, val2=2, result;

result = (val1>val2)?3:4;

switch(result) {

case 2: result-=3;

case 3: result++;

default: result\*=2;}

System.out.print(result);

* 1. 2
  2. **8 (Correct answer)**
  3. 6
  4. None of the above

1. Consider the following Boolean expression:

(x > y) && (y<z)

Which of the following is equivalent to that expression?

* 1. !(x<=y) && (y<z)
  2. !((x<=y) || (y>=z))
  3. **Both of the above**
  4. None of the above

1. Which of the following results in a compile time error?
   1. for(int i=1; i<=5; i++) System.out.print(i);

System.out.print(i);

* 1. int i=1; while(i<5) {System.out.print(i); i++; int j=3;}

System.out.print(j);

* 1. **Both of the above**
  2. None of the above

1. Which of the following executes the body of the loop 20 times?
   1. **int i=0; while(i<20){System.out.print(i); i++;}**
   2. int i=1; while(i<=20){System.out.print(i); i+=2;}
   3. Both of the above
   4. None of the above
2. Which of the following can be used to force the user to enter a strictly positive value (i.e., strictly greater than 0)? Assume that scan is a Scanner object that was instantiated properly.
   1. int val;

do {

val = scan.nextInt();

} while(val<0);

* 1. int val;

do {

val = scan.nextInt();

} while(val > 0);

* 1. Both of the above
  2. **None of the above**

**Problem II**

1. The following code fragment prints: 9

int val = 0;

for(int i=1; i<=2; i++)

for(int j=1; j<2; j++)

val += i\*j;

System.out.print(val);

Answer: True **False**

1. The following repetition statement runs forever:

int val = 1;

while(true) {

if(val==1) {continue;}

System.out.println(val);}

Answer: **True** False

1. Consider the following code fragment:

for(int count1=1; count1<=3; count1++){

for(int count2=1; count2<=count1; count2++)

System.out.print(“\*”);

System.out.println();}

Running the above code fragment results in the following output:

\*

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Answer: True **False**

1. The following identifiers are all reserved words: do, break, if, while, for.

Answer: **True** False

1. The following statements print: I feel good

boolean flag = false;

int a = 2, b = 5;

if(!flag)

if((a < b) || flag)

System.out.print(“I feel ”);

else

System.out.print(“I don’t feel ”);

System.out.print(“good”);

Answer: **True** False