TEST # _____ **TEST ID - B**

Computer Science I - Ifs and Strings

Directions :: On your answer sheet, mark the letter of the best answer to each question. Each question is worth 2.5 points for a total of 100 points. Write only on your answer sheet or scratch paper. Put your test # and test ID on your answer sheet.

QUESTION 01

What is the output?

A. 0 B. 789 C. 700
D. big E. little

```
int bNum = 200;
if(bNum > 700)
   out.println("big");
if(bNum < 700)
   out.println("little");
```

QUESTION 02

What is the output?

A. notsamedone
B. notsame
C. samedone
D. done
E. same

```
int dNum = 7;
if(dNum == 5)
   out.print("same");
if(dNum != 5)
   out.print("notsame");
out.print("done");
```

QUESTION 03

What is the output?

A. notsamedone
B. notsame
C. samedone
D. samenotsamedone
E. same

```
int eNum = 9;
if(eNum == 9)
out.print("same");
out.print("notsame");
out.print("done");
```

QUESTION 04

What is the output?

A. 12 B. 1 C. 12
D. 22 E. 2

```
int gNum = 44;
if(gNum >= 22){
   out.print("1");
}
out.println("2");
```

QUESTION 05

What is the output?

A. 12 B. 1 C. 12
D. 22 E. 2

```
int hNum = 4;
if(hNum >= 2)
   out.print("1");
if(hNum < 2)
   out.print("2");
```

QUESTION 06

What is the output?

A. 13 B. 22 C. 123
D. 3 E. 12

```
int iNum = 4;
if(iNum >= 2)
   out.print("1");
   if(iNum >= 7)
      out.print("2");
if(iNum > 2)
   out.print("3");
```

QUESTION 07

What is the output?

A. 13 B. 22 C. 123
D. 3 E. 12

```
int jNum = 7;
if(jNum >= 2){
   out.print("1");
   if(jNum >= 7)
      out.print("2");
   if(jNum < 7)
      out.print("3");
}
```

QUESTION 08

What is the output?

A. 234 B. 24 C. 4

D. 34 E. 31

```
int oNum = 4;
if(oNum >= 2){
   if(oNum >= 7)
      out.print("2");
}
if(oNum < 2)
   out.print("3");
System.out.print("4");
```

QUESTION 09

What is the output?

A. 32 B. 3 C. 23

D. 2 E. no output

```
int rNum = 1;
if(rNum >= 2){
   if(rNum >= 7)
      out.print("2");
if(rNum > 2)
   out.print("3");
}
```

QUESTION 10

What is the output?

A. xyzdef
B. xyzfun
C. xyz
D. ghifun
E. deffun

```
int x=100, z=88;
if(x > 90)
   if(z > 95)
      out.print("def");
   if(z < 95)
      out.print("xyz");
if(x < 90)
   out.print("ghi");
out.print("fun");
```

QUESTION 11

What is the output?

A. xyzdef
B. xyz
C. xyzfun
D. deffun
E. ghifun

```
int a=100, b=70;
if(a > 90)
   if(b > 80)
      out.print("def");
   if(b < 80)
      out.print("xyz");
if(a < 90)
   out.print("ghi");
out.print("fun");
```

QUESTION 12

What is the output?

A. ghifun
B. fun
C. def
D. ghi
E. deffun

```
int c=100, d=88;
if(c > 90)
   if(d > 95)
      out.print("def");
if(c < 90)
   out.print("ghi");
out.print("fun");
```

QUESTION 13

What is the output?

A. ghifun
B. def
C. deffun
D. ghi
E. fun

```
int e=100, f=78;
if(e > 90){
   if(f > 80)
      out.print("def");
}
if(e < 90)
   out.print("ghi");
out.print("fun");
```

QUESTION 14

What is the output?

A. go B. stop C. 700

D. 0 E. 789

```
int b = 350;
if(b<700)
   out.println("go");
else
   out.println("stop");
```

QUESTION 15

What is the output?

A. ABC
B. not same
C. same
D. there is no output
E. error

```
String c = "abc";
if(c.equals("ABC"));
   out.println("same");
else
   out.println("not same");
```

QUESTION 16

What is the output?

A. ABC
B. abc
C. same
D. there is no output
E. None of these

```
String d = "abc";
if(d.equals("ABC"))
   out.println("same");
```

QUESTION 17

What is the output?

A. notsamedone
B. same
C. samedone
D. done
E. notsame

```
int e=3;
if(e>=5)
   out.print("same");
else
   out.print("notsame");
out.print("done");
```

QUESTION 18

What is the output?

A. notsamedone
B. same
C. samedone
D. done
E. notsame

```
int g=5;
if(g==5)
out.print("same");
else out.print("notsame");
out.print("done");
```

QUESTION 19

What is the output?

A. 1
B. 12
C. 21
D. 2
E. error

```
int h=12;
if(h<=12)
   out.print("1");
else ()
   out.println("2");
```

QUESTION 20

What is the output?

A. 123
B. 13
C. 12
D. 3
E. 22

```
int k=4;
if(k>=2)
   out.print("1");
   if(k>=7)
      out.print("2");
else
   out.print("3");
```

QUESTION 21

What is the output?

A. 123
B. 12
C. 3
D. 13
E. None of these

```
int m=4;
if(m>=2){
   out.print("1");
   if(m>=7)
      out.print("2");
   else
      out.print("3");
}
```

QUESTION 22

What is the output?

A. 123 B. 12 C. 13

D. 3 E. None of these

```
int n=9;
if(n>=2)
   out.print("1");
   if(n>=7)
      out.print("2");
else
   out.print("3");
```

QUESTION 23

What is the output?

A. 12 B. 123 C. 13

D. 1 E. None of these

```
int p=4;
if(p>=2){
   out.print("1");
   if(p>=7)
      out.print("2");
}
else
   out.print("3");
```

QUESTION 24

What is the output?

A. 4 B. 234 C. 34

D. 24 E. None of these

```
int q=4;
if(q>=2){
   if(q<=7)
      out.print("2");
}
else
   out.print("3");
System.out.print("4");
```

QUESTION 25

What is the output?

A. 34 B. 234 C. 24

D. 4 E. None of these

```
int r=9;
if(r>=2)
   if(r>=7)
      out.print("2");
if(r<2)
    out.print("3");
out.print("4");
```

QUESTION 26

What is the output?

A. 2 B. 23 C. 32

D. 3 E. None of these

```
int t=5;
if(t>=2){
   if(t>=7)
      out.print("2");
else
   out.print("3");
}
```

QUESTION 27

What is the output?

A. xyzdef
B. xyzfun
C. fun
D. deffun
E. ghifun

```
int u=100, v=88;
if(u>90)
   if(v>95)
      out.print("def");
   else
      out.print("xyz");
else
   out.print("ghi");
out.print("fun");
```

QUESTION 28

What is the output?

A. deffun
B. xyz
C. xyzfun
D. dxyzdef
E. ghifun

```
int w=100, x=88;
if(w>90)
   if(x>80)
      out.print("def");
   else
      out.print("xyz");
else
   out.print("ghi");
out.print("fun");
```

QUESTION 29

What is the output?

A. -2 B. -1 C. 1
D. 2 E. 0

```
String st_A = "Apples";
String st_B = "Bananas";
out.println(st_A.compareTo(st_B));
```

QUESTION 30

What is the output?

A. bigger B. equal C. 0
D. -1 E. smaller

```
String sFive = "abc";
String sSix = "ABC";
if(sFive.compareTo(sSix)==0)
   out.print("equal");
else if(sFive.compareTo(sSix)>0)
   out.print("bigger");
else if(sFive.compareTo(sSix)<0)
   out.print("smaller");
```

QUESTION 31

What is the output?

A. gonogo B. runnogo C. fly
D. run E. nogo

```
int numE=100, numF=10;
if(numE>90)
   if(numF>=10)
      out.print("go");
   else
      out.print("run");
else
   out.print("fly");
out.print("nogo");
```

QUESTION 32

What is the output?

A. nogo B. run C. gonogo
D. go E. runnogo

```
int numG=88, numH=11;
if(numG>90){
   if(numH>10)
      out.print("go");
}else
   out.print("run");
out.print("nogo");
```

QUESTION 33

What is returned by the call `Fun.whoot(47)`?

A. -2 B. -4 C. -6
D. -2 -6 E. ERROR

```
public class Fun
{
  public static int whoot( int x )
  {
    if(x > 21)
       if(x > 36)
          return -2;
       else
          return -4;
    else
       return -6;
  }
}
```

QUESTION 34

What is returned by the call `Fun.whoot(27)`?

A. -2 B. -4 C. -6
D. -4 -6 E. ERROR

```
use same method from 33
```

QUESTION 35

Which control structure is also known as a fork in the road?

A. `if` B. `if/else` C. `cascaded if/else`

D. `both A and B` E. `none of these`

QUESTION 36

Which control structure would you use if your program had to select one path from four different paths to take?

A. `if` B. `if/else` C. `cascaded if/else`

D. `both A and B` E. `none of these`

QUESTION 37

What is printed out by the call `test(915)`?

A. `class`

B. `lunch`

C. `last period`

D. `Freedom`

E. `last period`
`Freedom`

```
public static void test( int x )
  {
    if(x < 1219)
       out.println("class");
    if(x > 1219)
       if(x < 1315)
         out.println("lunch");
    else
       out.println("last period");

    if(x > 1445)
      out.println("Freedom");
  }
```

QUESTION 38

What is printed out by the call `test(1446)`?

A. `class`

B. `lunch`

C. `last period`

D. `Freedom`

E. `last period`
`Freedom`

```
public static void test( int x )
  {
    if(x < 1219)
       out.println("class");
    if(x > 1219)
       if(x < 1315)
         out.println("lunch");
    else
       out.println("last period");

    if(x > 1445)
      out.println("Freedom");
  }
```

QUESTION 39

Consider the incomplete method below.

```
public int goofy ( int x )
{
     /*  body of  goofy  */
}
```

The following table shows several examples of input values and the results that should be produced by calling the method goofy.

Input value	returned value
3	6
6	24
7	14
12	48
21	42

Which of the following code segments could be used to replace `/* body of goofy */` so that the method would return the values as show in the table above?

I.
```
if( x % 2 == 0 )
    return x * 4;
else if( x % 2 != 0 )
    return x * 2;
else
    return x;
```

II.
```
if( x % 2 == 0 )
    return x * 4;
return x * 2;
```

III.
```
if( x % 2 == 0 )
    return x * 2;
else if( x % 2 != 0 )
    return x * 4;
else
    return x;
```

A. I only
B. II only
C. III only
D. I and II only
E. II and III only