

Computer Science I – If/else 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. big B. little C. 700 D. 0 E. 789	<pre>int aNum = 789; if(aNum > 700) out.println("big"); if(aNum < 700) out.println("little");</pre>
QUESTION 02 What is the output? A. same B. abc C. ABC D. there is no output E. 789	<pre>String aWord = "abc"; if(aWord.equals("ABC")) out.println("same");</pre>
QUESTION 03 What is the output? A. same B. abc C. ABC D. there is no output E. None of these	<pre>String bWord = "abc"; if(bWord.equals("abc")) out.println("same");</pre>
QUESTION 04 What is the output? A. same B. notsame C. done D. samedone E. notsamedone	<pre>int cNum = 5; if(cNum == 5) out.print("same"); if(cNum != 5) out.print("notsame"); out.print("done");</pre>
QUESTION 05 What is the output? A. same B. notsame C. done D. samedone E. notsamedone	<pre>int eNum = 5; if(eNum == 9) out.print("same"); out.print("notsame"); out.print("done");</pre>
QUESTION 06 What is the output? A. 1 B. 12 C. 21 D. 2 E. 22	<pre>int fNum = 4; if(fNum >= 12) out.print("1"); out.println("2");</pre>
QUESTION 07 What is the output? A. 1 B. 12 C. 21 D. 2 E. 22	<pre>int gNum = 4; if(gNum >= 22){ out.print("1"); } out.println("2");</pre>

<p>QUESTION 08</p> <p>What is the output?</p> <p>A. 123 B. 12 C. 13</p> <p>D. 3 E. 31</p>	<pre>int jNum = 4; if(jNum >= 2){ out.print("1"); if(jNum >= 7) out.print("2"); if(jNum < 7) out.print("3"); }</pre>
<p>QUESTION 09</p> <p>What is the output?</p> <p>A. 123 B. 12 C. 13</p> <p>D. 3 E. 31</p>	<pre>int kNum = 9; if(kNum >= 2) out.print("1"); if(kNum >= 7) out.print("2"); if(kNum < 2) out.print("3");</pre>
<p>QUESTION 10</p> <p>What is the output?</p> <p>A. 123 B. 12 C. 13</p> <p>D. 1 E. 31</p>	<pre>int mNum = 4; if(mNum >= 2){ out.print("1"); if(mNum >= 7) out.print("2"); } if(mNum < 2) out.print("3");</pre>
<p>QUESTION 11</p> <p>What is the output?</p> <p>A. 2 B. 23 C. 3</p> <p>D. 32 E. 31</p>	<pre>int qNum = 9; if(qNum >= 2) if(qNum >= 7) out.print("2"); if(qNum < 2) out.print("3");</pre>
<p>QUESTION 12</p> <p>What is the output?</p> <p>A. 2 B. 23 C. 3</p> <p>D. 32 E. 31</p>	<pre>int rNum = 5; if(rNum >= 2){ if(rNum >= 7) out.print("2"); if(rNum > 2) out.print("3"); }</pre>
<p>QUESTION 13</p> <p>What is the output?</p> <p>A. xyzdef</p> <p>B. xyz</p> <p>C. xyzfun</p> <p>D. deffun</p> <p>E. ghifun</p>	<pre>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");</pre>
<p>QUESTION 14</p> <p>What is the output?</p> <p>A. xyzdef</p> <p>B. xyz</p> <p>C. xyzfun</p> <p>D. deffun</p> <p>E. ghifun</p>	<pre>int a=100, b=88; if(a > 90) if(b > 80) out.print("def"); if(b < 80) out.print("xyz"); if(a < 90) out.print("ghi"); out.print("fun");</pre>

QUESTION 15 What is the output? A. ghifun B. deffun C. def D. ghi E. fun	<pre>int c=100, d=88; if(c > 90) if(d > 95) out.print("def"); if(c < 90) out.print("ghi"); out.print("fun");</pre>
QUESTION 16 What is the output? A. ghifun B. deffun C. def D. ghi E. fun	<pre>int e=100, f=88; if(e > 90){ if(f > 80) out.print("def"); } if(e < 90) out.print("ghi"); out.print("fun");</pre>

QUESTION 17 What is the output? A. same D. there is no output	B. abc E. 789	C. ABC	<pre>String c = "abc"; if(c.equals("ABC")) out.println("same");</pre>
QUESTION 18 What is the output? A. same D. there is no output	B. abc E. None of these	C. ABC	<pre>String d = "ABC"; if(d.equals("ABC")) out.println("same");</pre>
QUESTION 19 What is the output? A. same B. notsame C. done D. samedone E. notsamedone	<pre>int g=5; if(g==5) out.print("same"); else out.print("notsame"); out.print("done");</pre>		
QUESTION 20 What is the output? A. 1 D. 2	B. 12 E. error	C. 21	<pre>int h=4; if(h<=12); out.print("1"); else out.println("2");</pre>
QUESTION 21 What is the output? A. 1 D. 2	B. 12 E. 22	C. 21	<pre>int j=4; if(j<=2) out.print("1"); else out.print("2");</pre>
QUESTION 22 What is the output? A. 123 D. 3	B. 12 E. 22	C. 13	<pre>int k=4; if(k>=2) out.print("1"); if(k>=7) out.print("2"); else out.print("3");</pre>

<p>QUESTION 23</p> <p>What is the output?</p> <p>A. 123 B. 12 C. 13</p> <p>D. 3 E. None of these</p>	<pre>int m=4; if(m>=2){ out.print("1"); if(m>=7) out.print("2"); else out.print("3"); }</pre>
<p>QUESTION 24</p> <p>What is the output?</p> <p>A. 123 B. 12 C. 13</p> <p>D. 3 E. None of these</p>	<pre>int n=9; if(n>=2) out.print("1"); if(n>=7) out.print("2"); else out.print("3");</pre>
<p>QUESTION 25</p> <p>What is the output?</p> <p>A. 123 B. 12 C. 13</p> <p>D. 1 E. None of these</p>	<pre>int p=4; if(p>=2){ out.print("1"); if(p>=7) out.print("2"); } else out.print("3");</pre>
<p>QUESTION 26</p> <p>What is the output?</p> <p>A. 24 B. 234 C. 34</p> <p>D. 4 E. None of these</p>	<pre>int q=4; if(q>=2){ if(q<=7) out.print("2"); } else out.print("3"); System.out.print("4");</pre>
<p>QUESTION 27</p> <p>What is the output?</p> <p>A. 24 B. 234 C. 34</p> <p>D. 4 E. None of these</p>	<pre>int r=9; if(r>=2) if(r>=7) out.print("2"); if(r<2) out.print("3"); out.print("4");</pre>
<p>QUESTION 28</p> <p>What is the output?</p> <p>A. 2 B. 23 C. 3</p> <p>D. 32 E. None of these</p>	<pre>int t=5; if(t>=2){ if(t>=7) out.print("2"); else out.print("3"); }</pre>
<p>QUESTION 29</p> <p>What is the output?</p> <p>A. xyzdef</p> <p>B. xyz</p> <p>C. xyzfun</p> <p>D. deffun</p> <p>E. ghifun</p>	<pre>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");</pre>

<p>QUESTION 30</p> <p>What is the output?</p> <p>A. xyzdef B. xyz C. xyzfun D. deffun E. ghifun</p>	<pre>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");</pre>
<p>QUESTION 31</p> <p>What is the output?</p> <p>A. 0 D. -32</p> <p>B. -1 E. -2</p> <p>C. 32</p>	<pre>String st_A = "abc"; String st_B = "ABC"; out.println(st_A.compareTo(st_B));</pre>
<p>QUESTION 32</p> <p>What is the output?</p> <p>A. 0 D. -32</p> <p>B. -1 E. -2</p> <p>C. 32</p>	<pre>String st_C = "abc"; String st_D = "ABC"; out.println(st_D.compareTo(st_C));</pre>
<p>QUESTION 33</p> <p>What is the output?</p> <p>A. 0 D. -32</p> <p>B. -1 E. -2</p> <p>C. 32</p>	<pre>String st_E = "ABC"; String st_G = "ABC"; out.println(st_E.compareTo(st_G));</pre>
<p>QUESTION 34</p> <p>What is the output?</p> <p>A. 0 D. smaller</p> <p>B. equal E. -1</p> <p>C. bigger</p>	<pre>String sThree = "ABC"; String sFour = "abc"; if(sThree.compareTo(sFour)==0) out.print("equal"); else if(sThree.compareTo(sFour)>0) out.print("bigger"); else if(sThree.compareTo(sFour)<0) out.print("smaller");</pre>
<p>QUESTION 35</p> <p>What is the output?</p> <p>A. 0 D. smaller</p> <p>B. equal E. -1</p> <p>C. bigger</p>	<pre>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");</pre>
<p>QUESTION 36</p> <p>What is the output?</p> <p>A. go D. nogogo</p> <p>B. nogo E. gogo</p> <p>C. gonogo</p>	<pre>int numA=100, numB=17; if(numA>90) if(numB>10) out.print("go"); out.print("nogo");</pre>

QUESTION 37

What is the output?

A. go

B. run

C. fly

D. runnogo

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 38

What is the output?

A. gonogo

B. run

C. nogo

D. go

E. runnogo

```
int numG=100, numH=11;
if(numG>90){
    if(numH>10)
        out.print("go");
}else
    out.print("run");
out.print("nogo");
```

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	9
5	15
7	14
12	24
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 > 5 )
    if ( x < 20 )
        return x * 2;
else
    return x * 3;
```

II.

```
if( x > 5 )
    if ( x < 20 )
        return x * 3;
else
    return x * 2;
```

III.

```
if( x > 5 )
    return x * 2;
else
    return x * 3;
```

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

Name : _____ Date : _____

IF ELSE IF FREE RESPONSE

DIRECTIONS : Fill in each method with the proper java code.

```
public class Compare
{
    //returns one if one is bigger than two
    //returns two if two is bigger than one

    public static int whoIsBigger(int one, int two)
    {

    }

    //returns "before" if x comes before y in alphabetical order
    //returns "after" if x comes after y in alphabetical order
    //returns "same" if x and y are the same value

    public static String alpha(String x, String y)
    {

    }

}

//code in the main of another class
String test = Compare.alpha("test","bad");
System.out.println(test);

test = Compare.alpha("done","yeah!");
System.out.println(test);
```

OUTPUT

after

before