Note: Correct responses are based on Java, J2sdk v 6.0, from Sun Microsystems, Inc. All provided code segments are intended to be syntactically correct, unless otherwise stated (i. e. error type is an answer choice) and any necessary Java 2 Standard Packages have been imported. Ignore any typographical errors and assume any undefined variables are defined as used.

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C falso D true two = two ^ !one two;	What is output by the code to the	e right?	boolean two = !!!true;	
$\Gamma + 2 \cdot 1 \cdot 2 \cdot$	A. yes	B. no		
	C. false	D. true	System.out.println(two);	

QUESTION 8 String x = "baman";What is output by the code to the right? String y = "";for (int i=0; i < x.length(); i++) A. baman B. namab char c = x.charAt(i);C. robin if(i % 2 == 0)y += (char) (c -'0'+'9');D. kayaw else E. wavak y += c; System.out.println(y); QUESTION 9 public class WilezeTrain What is output by the line marked //1 in the client code to the right? protected Color color; A. apl B. usc color = Color.BLUE; C. comp D. sci public WilezeTrain (Color c) E. There is no output due to a syntax error. color = c;QUESTION 10 What is output by the line marked //2 in the client code to the right? public String getIt() A. apl B. usc if(color.equals(Color.BLUE)) return "apl"; C. comp if(color.equals(Color.RED)) D. sci return "usc"; if(color.equals(Color.WHITE)) E. There is no output due to a syntax error. return "omp"; return "sci"; } } //client code WilezeTrain w; w = new WilezeTrain(Color.BLUE); System.out.println(w.getIt()); //1 w = new WilezeTrain(Color.RED) {{ color=Color.GREEN;}}; System.out.println(w.getIt()); QUESTION 11 What is output by the code to the right? A. 74dog **B.** 11dog System.out.println(7 + 4 + "dog"); C. 7dog4 D. 28dog E. dog

```
QUESTION 12
What is output by the code to the right?
A. A
                                 В. В
                                                        System.out.printf("%c",68);
C. C
                                 D. D
E. There is no output due to a syntax error.
QUESTION 13
                                                        ArrayList<Integer> li;
What is output by the code to the right?
                                                        li = new ArrayList<Integer>();
A. 5
                                                        li.add(7);
B. 5 6
                                                        li.add(1);
C. 1 2 3
                                                        li.add(5);
                                                        li.add(2);
D. 7 5 3
                                                        li.add(6);
E. 5 6 java.util.NoSuchElementException
                                                        li.add(3);
                                                        Iterator<Integer> it = li.iterator();
                                                        while(it.hasNext()){
                                                          if( it.next() < Math.PI )</pre>
                                                            System.out.print(it.next() + " ");
QUESTION 14
                                                        public static int doh(int cnt)
What is output by the client code to the right?
                                                          int val = 0;
A. 36
                                                          for (int i=0; i < cnt; i++)
B. 48
                                                            for (int j=1; j < cnt / 2; j*=2)
C. 40
                                                              val = val + i + j;
                                                          return val;
D. 91
E. 24
                                                        //client code
                                                        out.println(doh(6));
QUESTION 15
                                                        String j = "pythoniskewl";
What is output by the code to the right?
                                                        out.print(j.charAt(3)-j.charAt(7));
A. -11
           B. 11
                      C. 4
                                D. 14
                                            E. 12
QUESTION 16
                                                        int deez = //some input value;
Which of the following could be output by the code to the right?
                                                        switch( deez ) {
                                                          case 2 : deez = -1; break;
A. 4
                                B_{-1}
                                                          case 3 : deez = 0;
C. 0
                                D. A and B only
                                                          case 4 : deez = 7;
E. A, B, and C
                                                          case 5 : deez = 4; break;
                                                        System.out.println( deez );
```

```
QUESTION 17
                                                            int count = 0;
What is the value of a [4] after this code segment is executed?
                                                            int a[] = \{0,11,'0',1,9,5,3,'a'\};
                      B. 12
A. 0
                                                            for(int i=0;i<a.length;i++)</pre>
C. 10
                      D. 48
                                                             if(a[i] % 2 == 0)
E. There is no output due to a runtime error.
                                                                continue;
QUESTION 18
                                                             else
                                                                a[i] = ++a[i];
What is the value of count after this code segment is executed?
                                                            for(int i=0;i<a.length;i++)</pre>
A. 7
                      B. 9
                                                             if(a[i] % 2 == 0)
C. 10
                      D. 8
                                                                count++;
E. There is no output due to a runtime error.
QUESTION 19
                                                            ArrayList<Integer> list;
What is output by the code to the right?
                                                            list = new ArrayList<Integer>();
                                                            list.add(9);
A. [8, 2, 7, 1, -1, 4, 9, 2, 10]
                                                            list.add(1);
B. [-1, 2, 7, 8, 1, 9, 2, 4, 10]
                                                            list.add(0,3);
C. [8, 7, 2, -1, 1, 9, 4, 2, 10]
                                                            list.add(5);
                                                            list.set(0,4);
D. [10, 7, -1, 2, 1, 4, 9, 2, 8]
                                                            list.add(2);
E. There is no output due to a runtime error.
                                                            Collections.reverse( list );
                                                            list.add(0,8);
                                                            list.add(2);
                                                            list.set(2,-1);
                                                            list.add(10);
                                                            list.add(1,7);
                                                            System.out.println(list);
QUESTION 20
                                                            double dbl = Math.round(Math.sqrt(80));
What is output by the code to the right?
                                                            System.out.print(dbl);
A. 7.0
            B. 8.0
                       C. 7
                                   D. 9
                                               E. 9.0
QUESTION 21
What is output by the code to the right?
                                                            System.out.println(11 ^{7} | 1 ^{1} 13);
A. 10
            B. 12
                       C. 11
                                   D. 7
                                               E. 13
QUESTION 22
Integer[] n = \{1, 3, 5, 7, 9, 11, 13\};
                                                            //pre :: n.length > 0
What is returned by go (n)?
                                                            public static int go(Integer[] n)
            B. 2
A. 1
                       C. 3
                                   D. 4
                                               E. 0
                                                               int x = n[0];
QUESTION 23
                                                               for(int i : n )
                                                                   x &= i;
Integer[] n = \{2, 2, 2, 2, 2, 3, 6, 10\};
                                                               return x;
                                                            }
What is returned by go (n)?
            B. 2
                       C. 3
                                   D. 10
                                               E. 6
A. 1
```

APlus 1112-04 November 05,2011 QUESTION 24 What is the *last* integer printed by this code segment? **C**. 0 **B**. 2 A. 1 E. There is not output due to a runtime error. QUESTION 25 What is returned by the method call m00h (6)? **A**. 3 **B**. 48 C. 36 QUESTION 26 What is returned by the method call mooh (3)? **A**. 3 **B**. 48 **C**. 36 QUESTION 27 What replaces <*1> to skip to the end of the for loop? A. skip

```
int x = 30;
while (x-- > 0)
 System.out.println(--x);
```

```
public static int m00h(int x)
 if(x<1)
   return 1;
    return m00h(x-2) * x;
}
```

B. continue

D. -1

D. 0

D. 0

E. 64

E. 64

C. goto

D. jump

E. break

QUESTION 28

Assuming that <*1> is filled correctly, what is output by the code to the right?

A. 023412

B. 0412

C. 41212

D. 01212

E. 041212

```
int[][] a = new int[5][5];
int x = 0, y = 0;
for (int i = 0; i < 25 && y < 5; i++)
 a[y][x] = i;
 if(y == x)
   System.out.print(i);
 if (y == 0) {
   y = x + 1;
```

x = 0;

<***1>**;

}

y--; x++;System.out.print(a[2][2]);

Stack[] s = new Stack[2];

QUESTION 29

Which of the following could replace <*1> in the code to the right to remove the most recently pushed element of t and return it?

A. t.pop()

B. t.remove(t.size()-1)

C. t.remove()

D. A and B

E. A. B. and C

QUESTION 30

What is output by the code to the right assuming <*1> is correctly filled in?

A. 2

B. 3

C. 7

D. 5

E. There is no output due to a runtime error.

```
s[0] = new Stack();
s[1] = new Stack();
Stack<Integer> t;
int[] a = {5, 3, 2, 7, 10, 11};
t = s[0];
for (int num : a) {
  t.push(num);
```

for (int i = 0; i < 10; i++) { int next = (i + 1) % 2;while (!t.empty()) { s[next].push(<*1>);t = s[next];

out.println(s[0].get(3));

QUESTION 31

What is output by the line marked //1 in the code to the right?

- A. it77
- **B**. 7337
- **C**. 1013
- D. wow
- E. //\\

What is output by the line marked //2 in the code to the right?

- QUESTION 32
- **A**. 4
- **B**. 3
- C. 9
- D. 6
- E. 5

String x = "[]7337&&1013//\\wow%it77[]"; String[] group = $x.split("\p{Punct}+")$;

System.out.println(group[4]); //1
System.out.println(group.length); //2

QUESTION 33

int[] a = $\{5,4,3,2,1,1,2,3,4,5\};$

What is returned by why (a, 4)?

- A. -1
- **B**. 0
- C. 1
- **D**. 2
- E. 3

QUESTION 34

int[] a = $\{5,4,5,6,7,8,7,6\};$

What is returned by why (a, 7)?

- **A**. -1
- **B**. 0
- C. 1
- **D**. 2
- E. 3

QUESTION 35

What is the *best* case bigO for method why? Choose the most restrictive answer.

- A. O(n)
- B. O(n/2)
- C. O(1)
- D. O(n-1)
- E. O(log2n)

public static int why(int[] a, int x) { for(int i=x-1;i>=0;i--) { if(a[i] < a[x]) return i; } return -1; }</pre>

QUESTION 36

Assume that method superSort(Object[] objs) is O(N) where N = obj.length. When method superSort is passed an Object array of length 10000 it takes 0.50 seconds for method superSort to complete. If method superSort is passed an Object array of length 20000, how many seconds would it take superSort to complete?

- A. 1.00
- B. 1.50

- C. 2.00
- D. 4.00
- E. 3.00

QUESTION 37

```
What is the output of the following client code?
```

```
ABird tweetee = new ABird();
tweetee.dance();
```

- **A.** 0
- B. 1
- **C**. 2
- **D**. 3
- E. There is no output due to a compile error.

QUESTION 38

What is the output of the following client code?

```
ABird tweetee = new Bomby(5, 3);
tweetee.freestyle();
```

- **A**. 0
- B. 1
- **C**. 2
- D. 3
- E. There is no output due to a compile error.

QUESTION 39

What is the output of the following client code?

```
Bomby tweetee = new Bomby(5, 3);
tweetee.dance();
```

- A. 0 1
- **B**. 0 5
- **C**. 5 5
- D. 0 10
- E. There is no output due to a runtime error.

QUESTION 40

What is the output of the following client code?

```
Bomby tweetee = new Boomer(2, 9);
tweetee.dance();
```

- **A**. 0 1
- **B**. 0 5
- **C**. 5 5
- D. 0 10
- E. There is no output due to a runtime error.

```
public class ABird {
  int x;
  public ABird() {
    x = 0;
  public ABird(int x) {
    this.x = x;
 public void dance() {
   System.out.println(++x);
public class Bomby extends ABird{
 int x;
  int y;
 public Bomby(int x) {
    this.x = x;
 public Bomby(int x, int y) {
    super(x);
    this.y = y;
  public void dance() {
   out.println(x+" "+super.x);
 public void freestyle(){
   out.println(x * 2+" " + super.x / 2);
}
public class Boomer extends Bomby{
  int y;
  public Boomer(int x, int y) {
    super(x, ++y);
 public void dance() {
   out.println(y+" "+super.y);
}
```