

## AP COMPUTER SCIENCE A – QUIZ 1 STUDY GUIDE

1) Which assignment statement is valid?

- a)** `10.7 = x;`                      **b)** `x = 10.7;`

*Ans.*

**b)**

2) What is the output of the code segment?

```
int i=15;
System.out.println(i++);
System.out.println(i);
```

*Ans.*

15

16

3) What is the output of the code segment?

```
int i=15;
System.out.println(++i);
System.out.println(i);
```

*Ans.*

16

16

4) What is the output of the code segment?

```
int k=42;
k *= 3;
System.out.println(k);
```

*Ans.*

126

5) What is the output of the code segment?

```
int k=42;
k += 3;
System.out.println(k);
```

*Ans.*

45

6) What is the output of the code segment?

```
boolean x, y, z;
x=false;
y=true;
z = x || y;
System.out.println(z);
```

*Ans.*

true

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7) What is the output of the code segment?

```
boolean x, y, z;  
x=false;  
y=true;  
z = x && y;  
System.out.println(z);
```

*Ans.*

false

8) What is the output of the code segment?

```
int x=243%11;  
System.out.println(x);
```

*Ans.*

1

9) What is the output of the code segment?

```
for ( int x=15; x>5; --x ) {  
    System.out.println(x);  
}
```

*Ans.*

15  
14  
13  
12  
11  
10  
9  
8  
7  
6

10) What is the output of the code segment?

```
for ( int x=2; x<17; x *= 2 ) {  
    System.out.println(x);  
}
```

*Ans.*

2  
4  
8  
16

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**11)** What is the output of the code segment?

```
int a;
int [] b;
/**/
a=17;
b=new int [4];
for ( int i=0; i<4; ++i ) {
    b[i]=a++;
}
for ( int i=0; i<4; ++i ) {
    System.out.println(
        "b[" + Integer.toString(i) + "] = " + Integer.toString(b[i])
    );
}
```

*Ans.*

```
b[0] = 17
b[1] = 18
b[2] = 19
b[3] = 20
```

Problems **12** through **14** concern an array `ia` which is initialized via

```
int [][] ia=new int [][] {
    { 1 , 2 , 3 } ,
    { 4 , 5 , 6 }
};
```

**12)** What would

```
System.out.println(ia.length);

print?
```

*Ans.*

2

**13)** What would

```
System.out.println(ia[0].length);

print?
```

*Ans.*

3

**14)** What would be the output of the code segment?

```
String s="";
for ( int i=0; i<ia[0].length; ++i ) {
    for ( int j=0; j<ia.length; ++j ) {
        s += Integer.toString(ia[j][i]);
    }
}
System.out.println(s);
```

*Ans.*

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