1. What is the final value of x and y after the following code snippet executes?

```
int x = 5;
int y = 0;
if (x++ > 5) {
y = 1;
} else {
y = 2;
}
```

A. x = 5 , y = 1
B. x = 5 , y = 2
C. x = 6 , y = 1
D. x = 6 , y = 2

2 Give the following code what is the value of z after the while loop finishes?

```
int z = 3;
while (--z) {
// Do nothing
}
```

A. 3
B. 1
C. 2
D. 0

3) What is the final value of p, it intial value of p is

```
int p = 10;
if (p-- > 10) {
p = p + 5;
} else {
p = p - 3;
}
```

A. 7
B. 15
C. 14
D. 6

4) Conditions for loops.

```
for (int i = 0; i < 5; i++) {
if (i++ < 2) {
// inner loop body
}
}
```

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A. 7
B. 15
C. 14
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4) Condition for loops.

```
for (int i = 0; i<5; i++) {
if (i++<2) {
//inner loop body
}
}
```

How many times does the expression i<5 (the loop condition) get evaluated as true?

A. 4
B. 5
C. 3
D. 2

5 In the following code, what is the final value of a?

```
int a = 2;
if (++a > 1) {
a = a + 1;
} else {
a = a - 1;
}
```

A. 2
B. 4
C. 3
D. 1

6) What is the printed by following code?

```
int m = 10;
if (m-- > 10) {
System.out.print("A");
} else {
System.out.print("B");
}
System.out.println(m);
```

A. B
10

B. B
9

C) A
10

D) A
9

7) How many times will be the body of the do-while loop execute?

```
int i = 4;
do {
i--;
} while (i++ > 1);
```

A. Infinitely (the condition is always non-zero in angle

B. 5
C. 4
D. 3

How many times does the expression i<5 (the loop condition) get evaluated as true?

A. 4
B. 5
C. 3
D. 2

5 In the following code, what is the final value of a?

```
int a = 1;
if (++a > 1){
a = a+1;
}else{
a = a-1;
}
```

A. 2
B. 4
C. 3
D. 1

6) What is the printed by following code?

```
int m=10;
if (m--7 =10){
system. out print ("A");
}else{
system out print ("B");
}
system . out println (m);
```

A. B
10

B. B
9

C) A
10

D) A
9

7) How many times will be the body of the do. while loop execute?

```
int i= 4;
do{
i--;
}while (i++ 1);
```

A. Infinitely (the condition is always non-zero in angle
B. 5
C. 4
D. 3.

A. a=5, b=1

B. a=5, b=2

C. a=3, b=1

D. a=3, b=5

16. How many times will the while loop executed?

```
int x = 1;
while (x<4) {
if (x++ + 2 == 0) {
break;
}
}
```

A. 2

B. 3

C. 4

D. 1

17) What is the final value of i and j?

```
int i = 1;
int j = 1;
if (++i == ++i) {
i = 10;
}
```

A. i = 10, j = 2

B. i = 2, j = 2

C. i = 10, j = 10

D. i = 1, j = 1

18. Consider the condition if (a-- < 0 && b++) # Which of the following statements about this condition is TRUE a = 1 and b = 0 initially?

A. The if block is skipped and the final values are a = 0, b = 1

B. The if block executes and the final values are a = 0, b = 1

The if block executes and the final values are a = 1, b = 0

The if block is skipped and the final values are a = 0, b = 0

19. What happens if a programs uses the expression ++ (x++) in a conditional statement eg. if (++x++)?

A. It is valid and increment x by 2 using the initial value for the check

B. It is valied syntactically vaid and increments x by 2

c. It increaments x and by y using the final value to the check

D. It result on a compalie-time error because x++ valuon a value not a variable reference.

2. What is the final value of count?

```
int count = 1;
while (count ++ < 3){
count = count ++)}
```

A = 6

B - 4

C - 5

D - 3.

2. Program to find maximum b/w three numbers using nested if.

```
#include <stdio.h>
int main(){
int a,b,c max;
printf("Enter three integer: ");
scanf("%d %d %d", &a, &b, &c);
if (a>=b){
if (a>=c){
    max = c;
}else{
    max = c;
}
}else{
if(b>=c){
    max = b;
}else{
    max = c;
}
}
printf("The maximum number is %d\n", max);
return 0;
}
```