

Name _____

TEST

Computer Science I - For Loops & While Loops

Directions :: On your answer sheet, mark the letter of the best answer to each question. Each question is worth 1.25 points for a total of 50 points. Write only on your answer sheet or scratch paper. Put your test # and test ID on your answer sheet.

<p>QUESTION 01</p> <p>What is the output?</p> <p>A. 0 B. 3</p> <p>C. 5 D. 4</p> <p>E. 12</p>	<pre>int counter=0; for(int c=0; c<12; c=c+3) { counter = counter + 1; } out.println(counter);</pre>
<p>QUESTION 02</p> <p>What is the output?</p> <p>A. 123 B. 12</p> <p>C. 1234 D. 12345</p> <p>E. 4321</p>	<pre>for(int e=1; e<=4; e++) System.out.print(e);</pre>
<p>QUESTION 03</p> <p>What is the output?</p> <p>A. 2 B. 25</p> <p>C. 25811 D. 25810</p> <p>E. 258</p>	<pre>for(int f=2; f<10; f+=3) System.out.print(f);</pre>
<p>QUESTION 04</p> <p>What is the output?</p> <p>A. 2 B. 3</p> <p>C. 4 D. 5</p> <p>E. 6</p>	<pre>int checkMe=1, c=0; while(checkMe < 5){ checkMe++; c++; } out.print(c);</pre>
<p>QUESTION 05</p> <p>What is the output?</p> <p>A. 01234 B. 0123</p> <p>C. 012 D. 12345</p> <p>E. 012345</p>	<pre>int m=0; while(m<5) { System.out.print(m); m++; }</pre>
<p>QUESTION 06</p> <p>What is the output?</p> <p>A. 21 B. 30</p> <p>C. 40 D. 45</p> <p>E. 51</p>	<pre>int num=5, sumIt=0; while(num<9) { num++; sumIt = sumIt + num; } System.out.print(sumIt);</pre>
<p>QUESTION 07</p> <p>What is the output?</p> <p>A. 02468 B. 0246810</p> <p>C. 2468 D. 246810</p> <p>E. None of these</p>	<pre>for(int i=0; i<10; s+=2); out.print(s);</pre>

<p>QUESTION 08</p> <p>What is the output?</p> <p>A. 9 B. 20 C. 16 D. 36 E. 25</p>	<pre>int x=0, tot=0; while(x<9) { if(x%2==1) tot=tot+x; x++; } System.out.print(tot);</pre>
<p>QUESTION 09</p> <p>What is the output?</p> <p>A. 1 2 3 4 5 B. 1 2 3 4 C. 15 D. 10 E. None of these</p>	<pre>int total = 0; for(int v=1; v<=5; v++) { total = total + v; } System.out.println(total);</pre>
<p>QUESTION 10</p> <p>What is the output?</p> <p>A. 4 3 2 1 B. 0 1 2 3 C. 0 1 2 3 4 D. 3 2 1 0 E. 4 3 2 1 0</p>	<pre>int i=0; String ans=""; while(i<5){ ans =i+" "+ ans; i++; } System.out.print(ans);</pre>
<p>QUESTION 11</p> <p>What is returned by the call fun(175)?</p> <p>A. 175 B. 571 C. 175571 D. 3 E. 0</p>	<pre>public int fun(int number) { int rev=0; int num=number; while(num>0) { rev=rev*10+num%10; num=num/10; } return rev; }</pre>
<p>QUESTION 12</p> <p>What is the output?</p> <p>A. nitram B. martin C. itram D. artin E. nnnnnn</p>	<pre>//charAt() will give you one character at a //certain spot in a string // "example".charAt(1) will give you 'x' // "example".charAt(2) will give you 'a' String name = "nitram"; String ans = ""; for(int i=0; i<6; i++) ans=name.charAt(i) + ans; System.out.print(ans);</pre>
<p>QUESTION 13</p> <p>What is the final value of dog when the loop is finished?</p> <p>A. 0 B. -5 C. 5 D. -1 E. 30</p>	<pre>for(int dog=30; dog>0; dog=dog-5) out.print(dog+" ");</pre>
<p>QUESTION 14</p> <p>What is the output?</p> <p>A. 7 B. 8 C. 9 D. 15 E. 16</p>	<pre>int count=0; for(int start=0; start<15; start++) { if(start%2==0) count++; } System.out.println(count);</pre>

QUESTION 15

What is the output?

- A. 24 B. 30
 C. 35 D. 20
 E. 65

```
int amount=0;
for(int num=2; num <12; num ++){
    if(num %2==1)
        amount=amount+ num;
}
System.out.println(amount);
```

QUESTION 16Which of the following describes the part of the loop next to the **<*1>** ?

- A. initialization
 B. condition
 C. body
 D. increment
 E. parameter

```
public class What
{
    //method huh will count up the
    //number of digits in number and
    //return the count

    public static int huh( int number )
    {
        int count = 0; <*1>
        while( number > 0)
        {
            count++;
            number = number / 10;
        }
        return count;
    }
}

//code in the main of another class
out.println(What.huh(332)); //1
```

QUESTION 17

Which of the following loops will print out the number 10 when executed ?

I.

```
int total = 0;
for(int a = 0;a < 5;a++){
    total = total + a;
}
out.println(total);
```

II.

```
int total = 0;
for(int a = 0;a < 6;a+=2){
    total = total + a;
}
out.println(total);
```

III.

```
int a=1, total = 0;
while(a<5){
    total = total + a;
    a++;
}
out.println(total);
```

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

QUESTION 18

Which of the following loops will print out the numbers 3, 5, 7, 9, 11?

I.

```
int i=1;
while(i<10){
    i=i+2;
    out.println(i);
}
```

II.

```
int i=3;
while(i<=11){
    out.println(i);
    i=i+2;
}
```

III.

```
for(int i=1;i<12;i++){
    if(i%2 == 1)
        out.println(i);
}
```

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

QUESTION 19

Which of the following loops will print out the numbers 5, 10, 15, 20, 25?

I.

```
int i=0;
while(i<=25){
    i=i+5;
    out.println(i);
}
```

II.

```
for(int i=5;i<=25;i=i+5)
{
    out.println(i);
}
```

III.

```
for(int i=1;i<6;i++)
{
    out.println(i*5);
}
```

A. I only

B. II only

C. I and II only

D. I and III only

E. II and III only

QUESTION 20

Which two steps can execute in a different order between both the for loop and the while loop?

- A. increment and initialization
- B. condition and initialization
- C. condition and body
- D. body and increment
- E. increment and condition

QUESTION 21

What is the third step of a for loop?

- A. increment
- B. parameter
- C. body
- D. initialization
- E. condition