

creation: 08/04/99

## Fill in the Blanks

**Instructions:** This is a fill-in-the-blank exercise. Each question consists of a sentence with one or two words left out. A button represents the missing word(s). For each question, think of the word or phrase that should fill each blank, then click on the buttons to see if you are correct.

1. When a mechanical machine repeatedly does something in performing its work it contains a . When a program repeatedly executes the same statements it contains a .

2. Fill in the following blanks to show the *syntax* of a **while** statement:

```
while (  )  
    
```

3. The *statement* immediately following the **while** is called the . It can be a  by including several statements between braces { and }.

4. What three things must be coordinated in order for a loop to run correctly?

1. The  must be set up correctly.
2. The  in the **while** statement must be correct.
3. The  in the loop body must be correct.

5. The condition of the **while** must evaluate to  each time before the loop body executes.

6. An variable (usually an **int**) that is used to control how a loop works is called a .

7. The following program is supposed to write out the integers 1, 2, 3, and 4. Decide what should go in the blanks.

```
class Counter  
{  
    public static void main (String[] args)  
    {  
        int count ;  
        count =  ;  
        while ( count  4 )  
        {  
            System.out.println( count );  
            count = count +  ;  
        }  
    }  
}
```

8. The following program is supposed to write out the integers 10, 11, 12, 13, 14, and 15. Decide what should go in the blanks.

```
class Counter2  
{  
    public static void main (String[] args)  
    {  
        int j ;
```

```

j =  ;
while ( j <  )
{
    System.out.println( j );
    j = j +  ;
}
}
}

```

9. The following program is supposed to write out the integers 0, 2, 4, 6. Decide what should go in the blanks.

```

class Counter3
{
    public static void main (String[] args)
    {
        int j ;
        j =  ;
        while ( j <=  )
        {
            System.out.println( j );
            j = j +  ;
        }
    }
}

```

10. The following program is supposed to write out the integers 2, 1, 0, -1 . Decide what should go in the blanks.

```

class Counter3
{
    public static void main (String[] args)
    {
        int count ;
        count =  ;
        while ( count >=  )
        {
            System.out.println( count );
            count = count -  ;
        }
    }
}

```

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End of the Exercise. If you want to do it again, click on "Refresh" in your browser window.

