

Solution to question Three

The declaration for an array that will hold 50 type long values

Answer:

long values [50];

The statement that assigns the value 123,456 to the 50th element in the array from the equation given is as shown below:

Answer:

long values[49] = 123456;

The value of x when the statement given is complete is:

Answer:

x is equal to 100 when the statement is complete

The value of ctr when the statement given is complete is:

Answer:

The value of ctr is 11 when the statement is complete

A while statement to count from 1 to 100 by 3s is:

Answer

```
#include <stdio.h>
```

```
main()
```

```
{
```

```
    int count = 1;
```

```
    while(count <= 100)
```

```
    {
```

```
        printf("%d ", count);
```

```
        count += 3;
```

```
    }
```

```
}
```

The problem with the code fragment (MAXVALUES is not the problem !) is :

Answer:

The code under the for loop is always executed once, outside of the for loop, because of the semicolon terminating the for loop.