

## Using [>>](#), [cin.get](#), [cin.getline](#), and [cin.ignore](#)

### Using the >> operator (with cin)

The >> operator may be used when you simply want to read the next non-blankspace characters entered by the user into a character or character array. Any printable characters that follow the first space will be ignored and will not be stored in the variable. Do not use a statement like,

```
cin >> UserExplanation;
```

if, for example, you wish to obtain a whole sentence from the user that includes spaces. In that case, you would be better served by using the cin member functions [get](#) or [getline](#).

**Question:** Will a null-terminator automatically be stored at the end of the character array, UserExplanation?

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### Using cin.get

The unformatted get member function works like the >> operator with two exceptions. First, the **get function includes white-space characters**, whereas the extractor excludes white space when the ios::skipws flag is set (the default). Second, the get function is less likely to cause a tied output stream (cout, for example) to be flushed.

A variation of the get function specifies a buffer address and the maximum number of characters to read. This is useful for limiting the number of characters sent to a specific variable, as this example shows:

```
#include <iostream.h>

void main()
{
    char line[25];
    cout << " Type a line terminated by carriage return\n>";
    cin.get( line, 25 );
    cout << ' ' << line;
}
```

In this example, you can type up to 24 characters and a terminating character. Any remaining characters can be extracted later.

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### Using cin.getline

The getline member function is similar to the get function. Both functions allow a third argument that specifies the terminating character for input. The default value is the newline character. **Both functions reserve one character for the required terminating character.** However, get leaves the terminating character in the stream and getline removes the terminating character.

The following example specifies a terminating character for the input stream:

```
#include <iostream.h>
```

```
void main()
{
    char line[100];
    cout << " Type a line terminated by 't'" << endl;
    cin.getline( line, 100, 't' );
    cout << line;
}
```

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## Using cin.ignore

cin.ignore( int nCount = 1, int delim = EOF );

### Parameters

nCount - The maximum number of characters to extract.

delim - The delimiter character (defaults to EOF).

### Remarks

Extracts and discards up to nCount characters. Extraction stops if the delimiter delim is extracted or the end of file is reached. If delim = EOF (the default), then only the end of file condition causes termination. The delimiter character is extracted.