constants, so we'll practice using them now.

**Changing the Step Size**

So far the loop examples have increased or decreased the loop counter by 1 each cycle. You can change that by changing the update expression. The program in Listing 5.5, for example, increases the loop counter by a user-selected step size. Rather than use `i++` as the update expression, it uses the expression `i = i + by`, where `by` is the user-selected step size.

**Listing 5.5 bigstep.cpp**

```cpp
// bigstep.cpp -- count as directed
#include <iostream>
using namespace std;
int main()
{
    cout << "Enter an integer: ";
    int by;
    cin >> by;
    cout << "Counting by " << by << "s:\n";
    for (int i = 0; i < 100; i = i + by)
        cout << i << "\n";
    return 0;
}
```

Here is a sample run:

Enter an integer: 17  
Counting by 17s:  
0  
17  
34  
51  
68