

The do-while Statement

- A repetition statement that evaluates an expression at the end of the statement
 - Allows some statements to be executed before an expression is evaluated
 - `for` and `while` evaluate an expression at the beginning of the statement

- **Format:**

```
do
```

```
    statement;
```

```
while (expression); // don't forget final ;
```

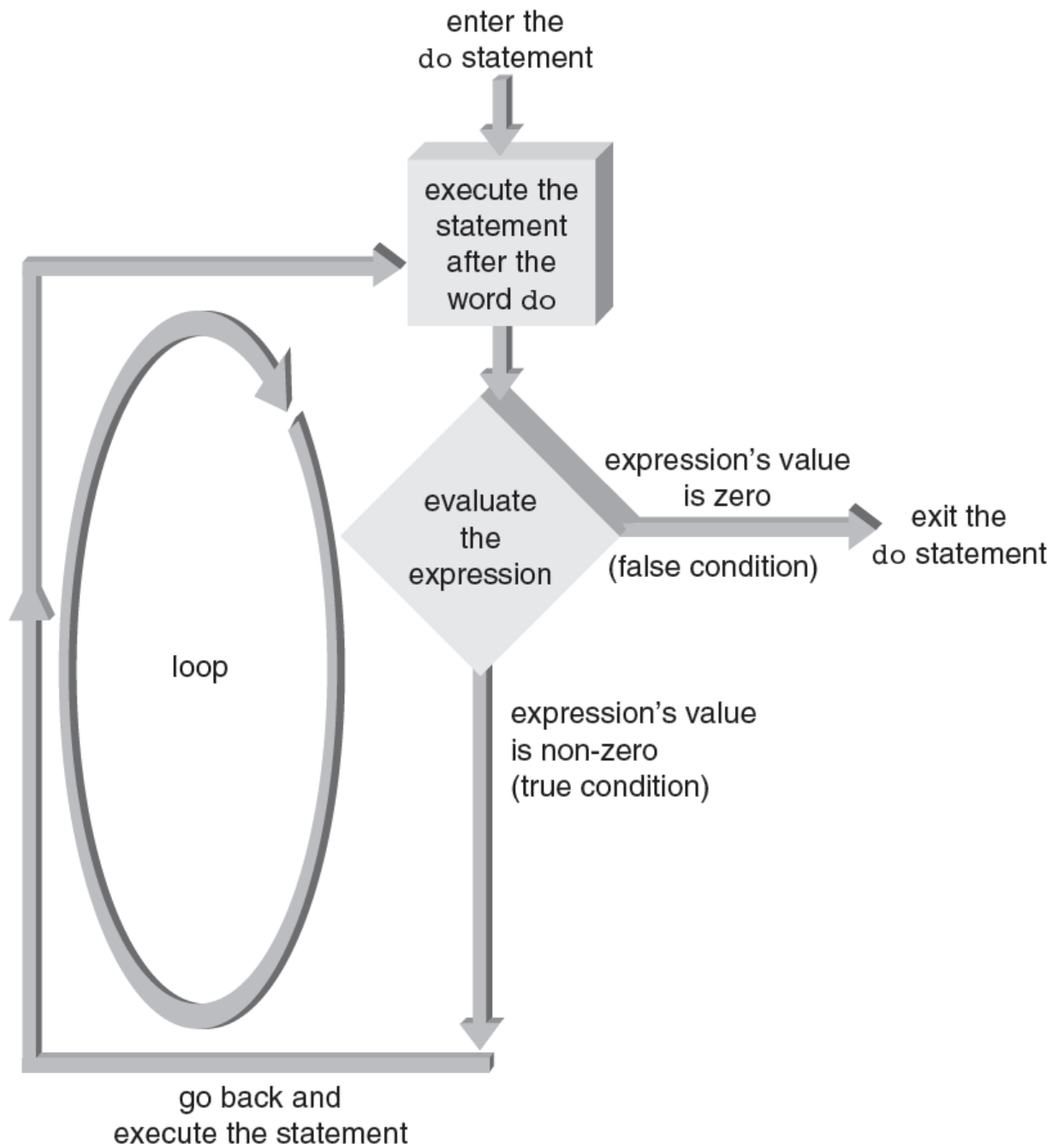


Figure 5.8 The `do` statement's flow of control

Validity Checks

- Provided by `do-while` statement through filtering of user-entered input
- Example:

```
do
{
    cout << "\nEnter an identification number: ";
    cin >> idNum;
    if (idNum < 100 || idNum > 1999)
    {
        cout << "\n An invalid number was just entered"
            << "\nPlease check the ID number and reenter";
    }
    else
        break; // break if a valid ID number was entered
} while(1); // this expression is always true
```