

# try-catch-finally (C# Reference)

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A common usage of `catch` and `finally` together is to obtain and use resources in a `try` block, deal with exceptional circumstances in a `catch` block, and release the resources in the `finally` block.

For more information and examples on re-throwing exceptions, see [try-catch](#) and [Throwing Exceptions](#). For more information about the `finally` block, see [try-finally](#).

## Example

C#

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```
public class EHClass
{
    void ReadFile(int index)
    {
        // To run this code, substitute a valid path from your local machine
        string path = @"c:\users\public\test.txt";
        System.IO.StreamReader file = new System.IO.StreamReader(path);
        char[] buffer = new char[10];
        try
        {
            file.ReadBlock(buffer, index, buffer.Length);
        }
        catch (System.IO.IOException e)
        {
            Console.WriteLine("Error reading from {0}. Message = {1}", path,
e.Message);
        }
        finally
        {
            if (file != null)
            {
                file.Close();
            }
        }
        // Do something with buffer...
    }
}
```

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# C# language specification

For more information, see [The try statement](#) section of the [C# language specification](#).

## See also

- [C# Reference](#)
- [C# Programming Guide](#)
- [C# Keywords](#)
- [try, throw, and catch Statements \(C++\)](#)
- [throw](#)
- [How to: Explicitly Throw Exceptions](#)
- [using Statement](#)

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