exception.cm

```
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    */
// Copyright (c) 1994
// Hewlett-Packard Company
// Copyright (c) 1996
// Silicon Graphics Computer Systems, Inc.
// Copyright (c) 2009 Alexander Stepanov and Paul McJones
namespace System
    public class Exception
        public nothrow Exception(): message(), file(), line(0)
        public nothrow Exception(const string& message_): message(
            message_), file(), line(0)
        public nothrow default Exception(const Exception& that);
            // generate copy constructor although has user-defined
            destructor
        public nothrow default void operator=(const Exception& that);
            //\ generate\ copy\ assignment\ although\ has\ user-defined
            destructor
        public nothrow default Exception (Exception &&);
            // generate move constructor although has user-defined
            destructor
        public nothrow default void operator=(Exception&&);
            // generate move assignment although has user-defined
            destructor
        public nothrow virtual ~Exception()
        \mathbf{public} \ \mathbf{virtual} \ \mathbf{string} \ \mathbf{ToString} \ () \ \mathbf{const}
             string s = exceptionType;
             if (! file . IsEmpty())
                 s.Append(" at '");
```

```
s.Append(file);
        if (line != 0)
            s.Append("' line ");
            s.Append(ToString(line));
        else
            s.Append(',');
    s.Append(": \n");
    s.Append(message);
    s.Append("\n");
    if (!callStack.IsEmpty())
        s.Append(callStack);
    return s;
public nothrow const string& ExceptionType() const
    return exceptionType;
public nothrow void SetExceptionType(const string& exceptionType_
    exceptionType = exceptionType_;
public nothrow const string& Message() const
    return message;
public nothrow const string& File() const
    return file;
public nothrow int Line() const
    return line;
public nothrow void SetFile(const string& file_)
    file = file_{-};
public nothrow void SetLine(int line_)
    line = line_-;
public nothrow void SetCallStack(const string& callStack_)
    callStack = callStack;
```

```
private string exceptionType;
    private string message;
    private string file;
    private int line;
    private string callStack;
}
```