## stream.cm

```
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// Copyright (c) 1994
// Hewlett-Packard Company
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// Silicon Graphics Computer Systems, Inc.
// Copyright (c) 2009 Alexander Stepanov and Paul McJones
using System;
using System. Collections;
using System. Concepts;
namespace System.IO
    public abstract class InputStream
        public nothrow InputStream() {}
        public nothrow virtual ~InputStream()
        suppress InputStream(const InputStream&);
        suppress void operator=(const InputStream&);
        public nothrow default InputStream(InputStream&&);
        public nothrow default void operator=(InputStream&&);
        public abstract string ReadLine();
        public abstract string ReadToEnd();
        public nothrow abstract bool EndOfStream() const;
    public abstract class OutputStream
        public nothrow OutputStream() {}
        public nothrow virtual ~OutputStream()
        suppress OutputStream(const OutputStream&);
        suppress void operator=(const OutputStream&);
        public nothrow default OutputStream(OutputStream&&);
        public nothrow default void operator=(OutputStream&&);
        public abstract void Write(const char* s);
```

```
public abstract void Write(const string& s);
    public abstract void Write(char c);
    public abstract void Write(byte b);
    public abstract void Write(sbyte b);
    public abstract void Write(short s);
    public abstract void Write(ushort u);
    public abstract void Write(int i);
    public abstract void Write(uint i);
    public abstract void Write(long 1);
    public abstract void Write(ulong u);
    public abstract void Write(bool b);
    public abstract void Write(float f);
    public abstract void Write(double d);
    public abstract void WriteLine();
    public abstract void WriteLine(const char* s);
    public abstract void WriteLine(const string& s);
    public abstract void WriteLine(char c);
    public abstract void WriteLine(byte b);
    public abstract void WriteLine(sbyte b);
    public abstract void WriteLine(short s);
    public abstract void WriteLine(ushort u);
    public abstract void WriteLine(int i);
    public abstract void WriteLine(uint i);
    public abstract void WriteLine(long 1);
    public abstract void WriteLine(ulong u);
    public abstract void WriteLine(bool b);
    public abstract void WriteLine(float f);
    public abstract void WriteLine(double d);
}
public OutputStream& operator<<(OutputStream& s, const string& str)</pre>
    s. Write(str);
    return s;
public OutputStream& operator<<(OutputStream& s, const char* str)</pre>
    s. Write(str);
    return s;
public OutputStream& operator<<(OutputStream& s, char c)</pre>
    s. Write(c);
    return s;
public OutputStream& operator<<(OutputStream& s, byte b)</pre>
    s. Write(b);
    return s;
}
```

```
public OutputStream& operator<<(OutputStream& s , sbyte b)</pre>
    s. Write(b);
    return s;
public OutputStream& operator<<(OutputStream& s , short x)</pre>
    s.Write(x);
    return s;
public OutputStream& operator<<(OutputStream& s , ushort u)</pre>
    s.Write(u);
    return s;
public OutputStream& operator<<(OutputStream& s , int i)</pre>
    s. Write(i);
    return s;
public OutputStream& operator<<(OutputStream& s , uint u)</pre>
    s. Write(u);
    return s;
public OutputStream& operator<<(OutputStream& s , long 1)</pre>
    s. Write(1);
    return s;
public OutputStream& operator<<(OutputStream& s , ulong u)</pre>
    s. Write(u);
    return s;
}
public OutputStream& operator<<(OutputStream& s, bool b)</pre>
    s. Write(b);
    return s;
public OutputStream& operator<<(OutputStream& s, float f)</pre>
    s. Write(f);
    return s;
```

```
}
     public OutputStream& operator<<(OutputStream& s, double d)</pre>
          s. Write(d);
          return s;
     public OutputStream& operator<<(OutputStream& s, Date date)</pre>
          s. Write (ToString (date));
          return s;
     public OutputStream& operator<<(OutputStream& s, EndLine)</pre>
          s. WriteLine();
          return s;
     \textbf{public} \hspace{0.1cm} \textbf{OutputStream\& operator} <\!\!<\!\!\text{C}\!\!>\!\! (\textbf{OutputStream\& s}, \hspace{0.1cm} \textbf{const} \hspace{0.1cm} \textbf{C\& c}) \hspace{0.1cm} \textbf{where}
          C is ForwardContainer and C. ValueType is int
          bool first = true;
          for (int i : c)
               if (first)
                    first = false;
               else
                    s.Write(",");\\
               s. Write(i);
          return s;
     }
namespace System
     note: EndLine class and endl() function is placed to System namespace
            so that they will be available to code using System. Console.
     public class EndLine
          public nothrow inline EndLine()
          public nothrow inline EndLine(const EndLine&)
```

```
public nothrow inline EndLine endl()
{
    return EndLine();
}
```