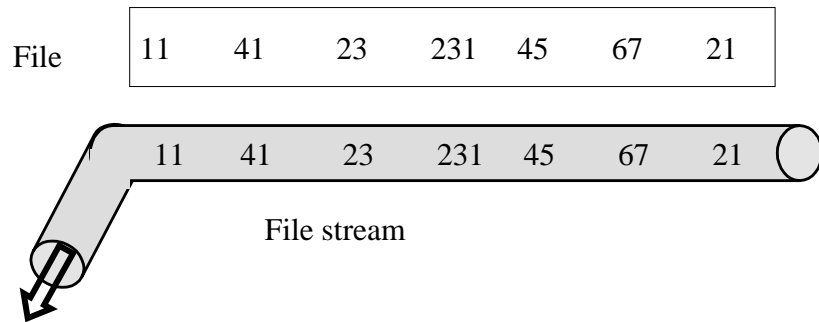


Pictorial representation of file and file stream



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Formatting output

Directive:

```
#include <iomanip.h>
```

To activate manipulators for floating point:

```
ostream.setf(ios::fixed, ios::floatfield);  
ostream.setf(ios::showpoint);
```

Statements:

```
//To show 2 digits after the decimal point  
ostream<<setprecision(2)<<2.007;   →   2.01  
// To set field width to create column alignment  
ostream <<setw(7)<< 2.3;   →   □□□□2.3  
ostream<< setw(8)<< setprecision(1) << 2.004;
```

→ □□□□2.0

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Reading to input failure

Three different ways to read to the end of file

```
ifstream inFile; //Declare ifstream object  
inFile.open("MyFile.txt");  
inFile >> x;      // Priming read
```

```
while(inFile)  
{  
    inFile >> x;  
    ....  
}
```

```
while(!inFile.eof())  
{  
    inFile >> x;  
    ....  
}
```

```
while(!inFile.fail())  
{  
    inFile >> x;  
    ....  
}
```

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Relational and Logic operators

bool is a simple data type in C++ which is absent in C

bool can take two values **true** or **false**

Relational operators

==	!=
>	>=
<	<=

Logical operators

Not	→	!
And	→	&&
Or	→	

Logical and relational expressions both evaluate to a boolean value

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