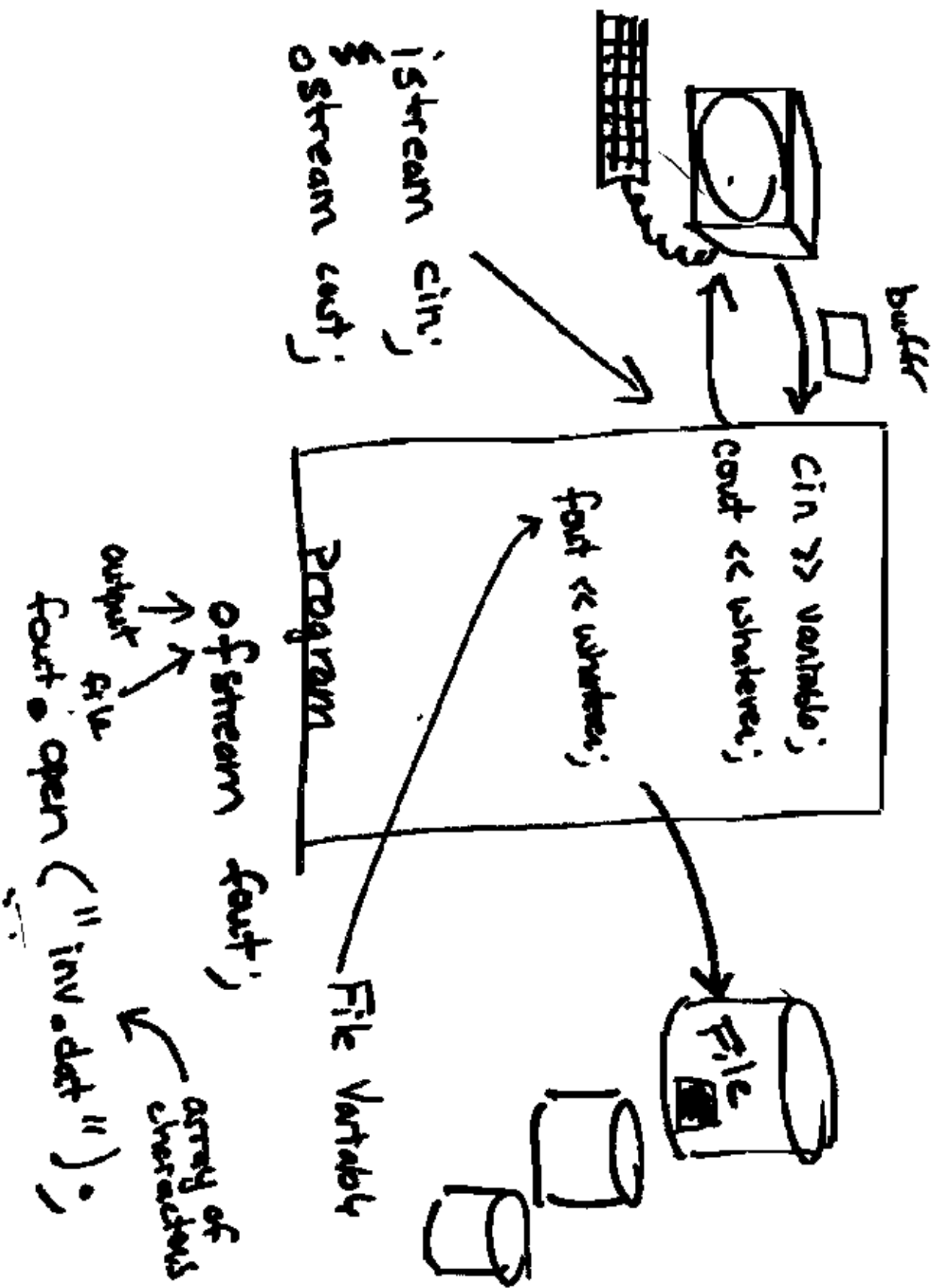


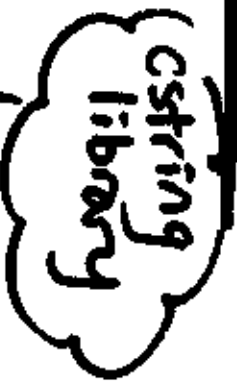
# External File I/O



2.

To wipe out file... to write to  
a file: #include <fstream>

1. ofstream fout;  
fout.open("inv.dat");

2. char filename [21];  
cin >> filename; cin.ignore();  
ofstream fout(filename, "a");  
fout.open(filename);
- 



To keep the file in tact: 3.

```
fout.open(filename, ios::app);
```

```
// fout is TRUE (non zero) if  
open was successful.
```

```
// fout is FALSE (zero) otherwise
```

```
if (fout) //was open successful
```

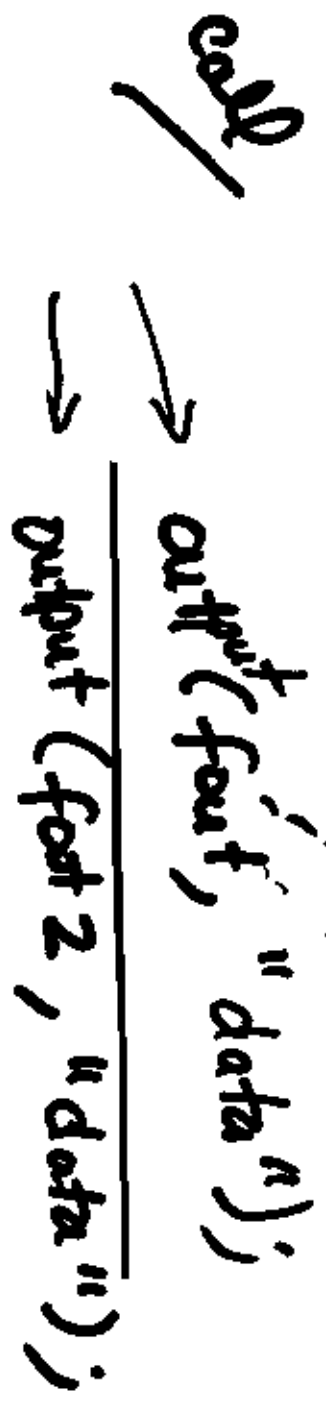
```
{  
    :  
    : fout << variable << '\n';
```

```
fout.close(); fout.clear();
```

```
}
```

// write a function to output  
// information (character) to a file:

```
void write_output ( ofstream & fileout, char array  
{  
    fileout << array << '\n';  
}
```



Better

\*include ...

```

const int    SIZE_NAME = 21;
const int    SIZE_DESC = 131;
const int    SIZE_BAR = 13;

```

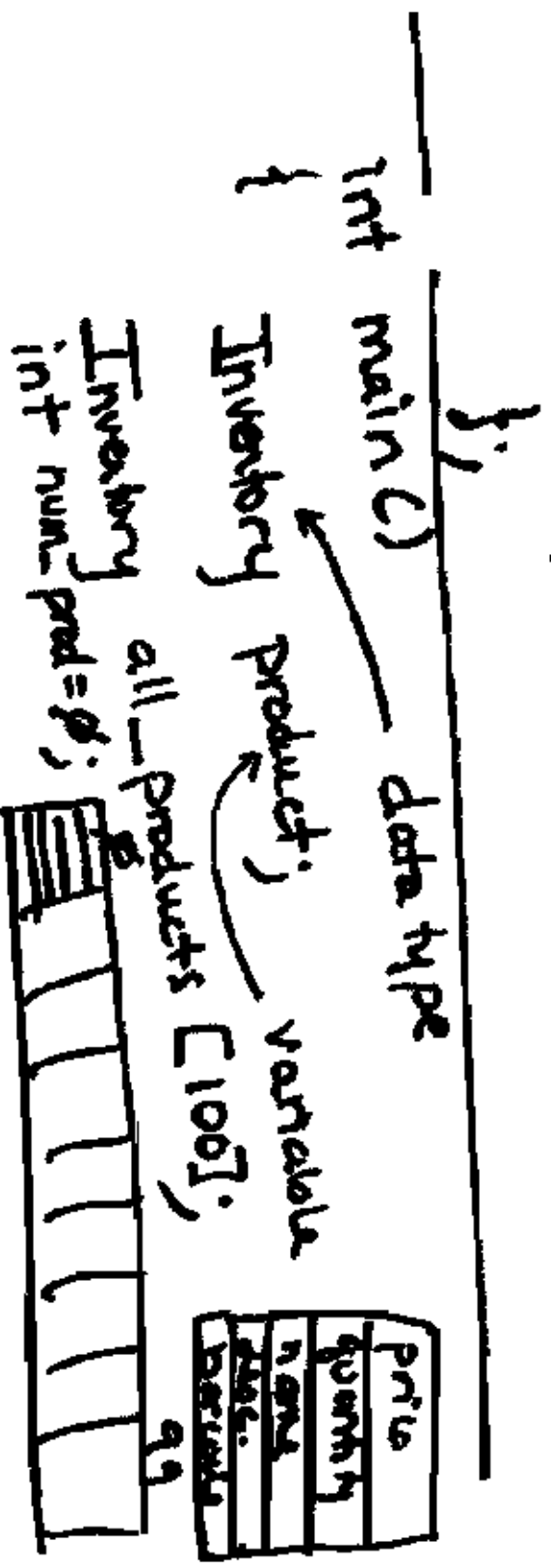
struct Inventory

```

{
  float price;
  int quantity;
  char name [SIZE_NAME];
  char description [SIZE_DESC];
  char barcode [SIZE_BAR];
}

```

BEFORE  
MAIN



```
void save_inventory (Inventory & product,  
store char filename [1])
```

```
{  
    ofstream fout;
```

```
    fout.open (filename, ios::app);
```

```
    if (fout)
```

```
    {  
        fout << product.priid << '\n';
```

```
        fout << product.quantity << '\n';
```

```
        << product.name << '\n';
```

```
        << product.description << '\n';
```

```
        << product.barcode << '\n';
```

```
    }  
    fout.close();
```

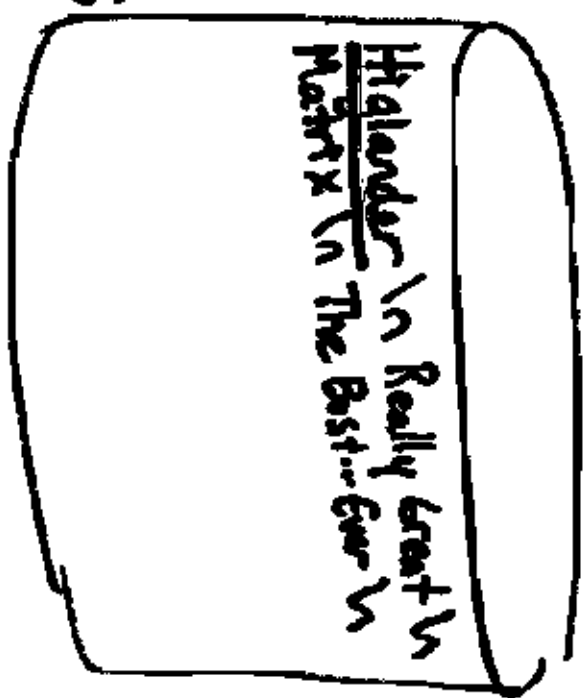
```
}
```

# Input from a File

9

```
ifstream fin;  
fin.open("inv.dat"); // fin.open(filename);  
if (fin) // most likely true is  
// a file to read from  
{  
    fin.get(more, 81, '\n');  
    // array size of array  
    while (fin && !fin.eof())  
    {  
        fin.ignore();  
        fin.get(comment, 131, '\n');  
        fin.ignore();  
    }  
}
```

array of  
characters





```
cout << movie << '\t' << comments << '\n';  
    fin.get (movie, 81, '\n');  
}  
fin.close();  
fin.clear();
```

fin 77 variable;

Fin.eof()

True - if the previous input  
operator failed  
False - otherwise

↳

```
void get_inventory (Inventory allEI, int &num)
{
    ifstream filein;
    filename.open (filename);
    if (filein)
    {
        filein >> allE[num].price;
        while (filein && !filein.eof())
        {
            filein.ignore(); // '\n'
            filein >> allE[num].quantity;
            filein.ignore(); // '\n'
            filein.get (allE[num].name, '\n');
            SIZE_NAME, '\n');
            filein.ignore(); // '\n'
            filein.get (allE[num].description,
                SIZE_DESC, '\n');
            filein.ignore(); // '\n'
            filein.get (allE[num].barcode,
                SIZE_BAR, '\n');
        }
    }
}
```

```
++num;
fwin >> all[num].price;
}
fwin.close();
```

```
}
```

```
}
```