



Sample: C++ - Storage program

```
#include <iostream>

#include <cstdlib>

#include <stdlib.h>

using namespace std;

#define MAX_SIZE 3//setting the array size constant value

void addItem(int part_number[MAX_SIZE], double price[MAX_SIZE], int number_remaining[MAX_SIZE],
int);// function prototypes

void viewReport(int part_number[MAX_SIZE], double price[MAX_SIZE], int number_remaining[MAX_SIZE],
int);

int main() {

    int part_number[MAX_SIZE];

    double price[MAX_SIZE];

    int number_remaining[MAX_SIZE];

    int count_elements = 0;

    int menu_state = 0;

    do {

        system("cls");//cleaning the console screen

        cout<<"Welcome to Tom's Hardware Store\n"<<endl;

        cout<<"1.AddItems"<<endl;

        cout<<"2.View a report"<<endl;

        cout<<"3.Exit"<<endl;

        cin>>menu_state;

    }

    switch(menu_state) {

    case 1: {

        if(count_elements < MAX_SIZE) {if we have space in our inventory...

            addItem(part_number, price, number_remaining, count_elements);

            count_elements++;

            system("cls");

            cout<<"Items added. Thank you."<<endl;

        }

    }

    }

}
```



```
        system("pause");
    } else { // if we do not have any space there
        cout<<"Insufficient space."<<endl;
        system("pause");
    }
}
break;
case 2:{
    viewReport(part_number, price, number_remaining, count_elements);
    system("pause");
}
break;
case 3:
    cout<<"Have a nice day. We will be glad t see you soon"<<endl;
    return 0;
default:// if the user enter something else then 1, 2 or 3
    cout<<"Unknown entry. Please double check next time."<<endl;
    break;
}
} while (menu_state != 3);
system("pause");
return 0;
}

void addItems(int part_number[MAX_SIZE], double price[MAX_SIZE], int number_remaining[MAX_SIZE], int
n) {
    system("cls");
    cout<<"Please enter part number, price for the item and number of items."<<endl;
    cin>>part_number[n]>>price[n]>>number_remaining[n];
}

void viewReport(int part_number[], double price[], int number_remaining[], int n) {
    system("cls");
```



```
cout<<"          Tom's Hardware Store"<<endl;
cout<<"          -----"<<endl;
cout<<"Part No"<<"          Price          Count Remaining"<<endl;
for( int i = 0; i < n; i++)
    cout<<part_number[i]<<"          "<<price[i]<<"          "<<number_remaining[i]<<endl;
}
```