

1. Given array : string names[10]; and text file "data.txt". Write a program to do the following

- Copy data from the file into array names  
Calling statement: copyData("data.txt", names);
- Display array names  
Calling statement: displayNames( names );
- Sort array names using the "sort" member of <algorithm> library  
Calling statement: sort(names, names+10);
- Display the sorted form of array names  
Calling statement: displayNames (names );

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2. Given array : int a[7]={ 9,11,15, 7, 20, 30, 26}; and the following main() function

```
int main( )
{
    //display array a
    cout<<"This is the original array a
    displayArray( a ,7 );
    //find the maximum and minimum data in array a
    int max, min;
    findMaxMin( a, 7, max, min);
    //find the average of data in array a
    float average;
    average = findAverage( a, 7);
    //display max, min, and average
    displayMaxMinAve(max, min, average);
    //sort and display the sorted array a
    sort( a, a+7);
    cout<<"This is the sorted form of array a\n";
    displayArray(a, 7);
    //terminate program
    system("pause");
    return 0;
}
```

Sample I/O

This is the original array a  
9 11 15 7 20 30 26  
Maximum=30  
Minimum=7  
Average = 16.86

This is the sorted form of array a  
7 9 11 15 20 26 30

Write a program to use this main () and generate the given I/O

3. Create a class named car that has speed, make, model and yearmade. Create an object of this class (name it your own car). Add a constructor to your class that creates a Toyota Camry 2020 that its speed is 0. Create a loop and speeds up until your car reaches 230 miles per hour. Create another loop and push the break until car stops.

- **Attributes**

Speed

Make

Model

Yearmade

- **Functions:**

Setters and getters for speed make model and year made

Speedup (adds 10 to your speed)

Brake (reduces your speed by 10)

Run your program and make your car speed up and slow down.