

Search and Sort Tutorial – Scholarships

This tutorial demonstrates how to use search and sort vector arrays of structure records. It uses a Scholarship struct to create a vector array of structure records that is initialized by reading data from a .CSV file. NOTE: If you find errors when working this tutorial, do NOT start adding or deleting your own code to fix it. This tutorial does work when done correctly.

1. Create C++ project named *Scholarships*.
2. Download the Search and Sort Tutorial ZIP file from Blackboard > (This Lesson) and save to your computer.
3. Using Windows File Explorer, COPY all of the files from the ZIP file into the new project's folder.
4. With the new project open in Dev C++, add the files to the project panel.

Searching

5. Open the *scholarships.h* file and STUDY the struct defined in it.
6. Open the *scholarships.cpp* file and look at the *writeFile()* function definition at the bottom of the file, which is the overloaded report function that looks for a type of scholarship. This is a type of search that you completed a few tutorials ago. You will use some of the principles here to create a search function that returns a specific scholarship that is chosen by the user.
7. Add the following *search()* function below the *writeFile()* function you just looked at, to include the comments. It accepts a copy of the entire array and a string that is used to search the array.

```

/*****
 *                               search                               *
 * This function performs a linear search on an array of          *
 * Scholarship struct records, using ID as the key field.        *
 * If the desired code is found, its array subscript is         *
 * returned. Otherwise, -1 is returned.                          *
 *****/
int search(vector<Scholarship> s, // Pass copy of the entire array
           string sLookFor)      // ID to lookfor
{
    int index = 0;               // Used as a subscript to search array
    int position = -1;           // Used to record position of search value
    bool found = false;         // Flag to indicate if the value was found

    while (index < s.size() && !found)
    {
        if (s[index].ID == sLookFor) // If the value is found
        {
            found = true;             // Set the flag
            position = index;         // Record the value's subscript
        }
        index++;                   // Go to the next element
    }
    return position;              // Return the position, or -1
} // End search

```

Scholarships Best Tutorial

J T. Amner



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