

## 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 look for
{
    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

**Charles Clough**

## Scholarships Best Tutorial:

Guide to the scholarship examination, suppl. to the 'Preparation for the scholarship examination' appearing in 'The Teachers' aid George Benson Clough,1891    **Complete guide to the certificate and scholarship examinations, by a head master under the London school board [J.T. Amner].** J T. Amner,1878    Guide to the queen's scholarship examination A C. Smith,1894    **John Heywood's Complete Guide to the Scholarship and Certificate Examinations for Pupil-teachers, Students, & Acting Teachers, Etc** Matthew Thompson Yates,1877    A guide to the Queen's scholarship examination [set by the Privy council comm. on educ.] by a first-class certificated master, together with 2 years' examination papers Education Ministry of,1889    Stewart's guide-book to the queen's scholarship and certificate examinations, and to public elementary schools and training schools Stewart W. and co,1884    **Scholarships, fellowships and loans :a guide to education-related financial aid programs for students and professionals** ,2006    Clough's reprint of ten years' questions set at the Queen's scholarship examination Charles Clough,1899    Queen's scholarship examination questions, 1888-1893, with hints to candidates and with solutions worked out, by R.F. Geddes & S.H. Router R F. Geddes,1894    **Prentice Hall Guide to Scholarships and Fellowships for Math and Science Students** Mark Kantrowitz,Joann P. DiGennaro,1993 This invaluable resource offers students at all grade levels more than 250 full listings of college scholarships graduate fellowships contests and competitions summer programs and research programs in two different fields science mathematics and engineering programs and general category programs that do not restrict a student's field of study Includes an annotated bibliography of additional sources of academic and career information

**Scholarships Guide for Commonwealth Postgraduate Students** ,1977    Cusack's reprints of scholarship examination questions, 1886-1895 James Cusack,1896    **Popular Guide to the Professions ...** R. W. Atkinson,1895

**Columbia University Bulletin** ,1890    The Best 385 Colleges, 2020 Edition The Princeton Review,Robert Franek,2019-09-24 Make sure you're preparing with the most up to date materials Look for The Princeton Review's newest edition of this book The Best 386 Colleges 2021 Edition ISBN 9780525569725 on sale August 2020 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product    **America's Complete Sports Scholarship Guide (athletic and Academic)** Mark Bercik,2003 Information real life experiences and advise on the recruiting process that leads to athletic scholarships and financial aid Interviews with high school collegiate and professional athletes coaches scouts and ESPN and CBS TV analysts who want to give something back to the game to benefit today's young student athletes Visit [www.AthleticScholarshipBook.com](http://www.AthleticScholarshipBook.com)    The Best 386 Colleges, 2021 The Princeton Review,Robert Franek,2020-12-22 Make sure you're preparing with the most up to date materials Look for The Princeton Review's newest edition of this book The Best 387 Colleges 2022 ISBN 9780525570820 on sale August 2021 Publisher's Note Products purchased from third party sellers

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