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An Educational Initiative

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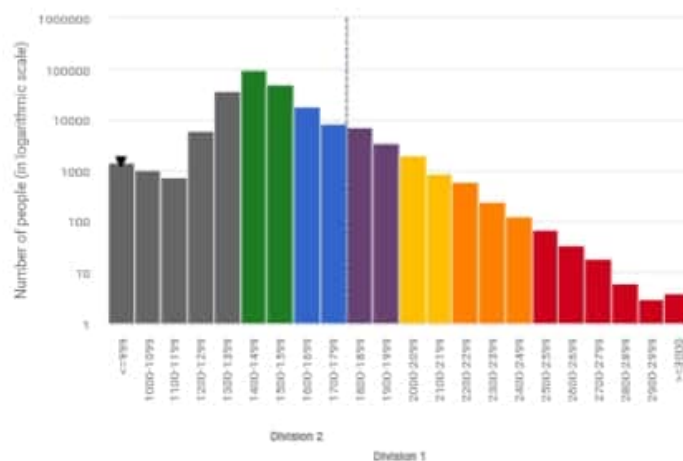▸ PRACTICE ▸ COMPETE ▸ DISCUSS   ▸ COMMUNITY ▸ HELP ▸ ABOUT

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Pushpitha P ✎ f 👥

Username:	pushpitha2001
Country:	🇮🇳 India
State:	Karnataka
City:	Mysuru
Student/Professional:	Student
Institution:	Alvas Institute of Engineering and Technology Karnataka, India
Teams List:	List of teams by Pushpitha P
Team Invites:	Click here to check team invites. 🔄

Rating Graphs

| | CodeChef | Long Challenge | Cook Off | Lunch Time |

CodeChef Rating Distribution

0
⭐

CodeChef Rating
(Highest Rating 0)

NA | **NA**
Global Rank | Country Rank

Contests	Rating	Global Rank	Country Rank
Long Challenge	0	NA	NA
Cook-off	0	NA	NA
Lunch Time	0	NA	NA

Recent Activity

Date/Time	Problem	Result	Lang
	No Recent Activity		

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Code, Compile & Run

Ide ✕ +

| Contest Code/Name (e.g. JULY15/PRACTICE) | Problem Code/Name (e.g. TEST) | **Select** |

C (gcc 6.3) ▼ 📄 🗑 Code gets autosaved every second   ⓘ ⬇ ⟋ ⚙

```
1
2   #include <stdio.h>
3   #include <stdlib.h>
4   #include <string.h>
5
6   void sort_string(char*);
7
8   int main()
9 ▾ {
10      char string[100];
11
12      printf("Enter some text\n");
13      gets(string);
14
15      sort_string(string);
16      printf("%s\n", string);
17
18      return 0;
19  }
20
21  void sort_string(char *s)
22 ▾ {
23      int c, d = 0, length;
24      char *pointer, *result, ch;
25
26      length = strlen(s);
27
28      result = (char*)malloc(length+1);
29
```

49:1   ⟳

Open File   ✓ Custom Input   **Run**

Custom Input

pushpitha|

Status Successfully executed   Date 2020-06-21 05:42:44   Time 0 sec   Mem 9.424 kB   ✕

Input

pushpitha

Output

Enter some text
ahhippstu

✕ 🔒 **Code, Compile &...**
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Code, Compile & Run

Ide ✕   +

| Contest Code/Name (e.g. JULY15/PRACTICE) | Problem Code/Name (e.g. TEST) | **Select** |

C (gcc 6.3) ▾ 🖫 🗑 Code gets autosaved every second   ⓘ ⬆ ↗ ⚙

```
22 * {
23      int c, d = 0, length;
24      char *pointer, *result, ch;
25
26      length = strlen(s);
27
28      result = (char*)malloc(length+1);
29
30      pointer = s;
31
32      for ( ch = 'a' ; ch == 'z' ; ch++ )
33 *    {
34          for ( c = 0 ; c < length ; c++ )
35 *        {
36              if ( *pointer == ch )
37 *            {
38                  *(result+d) = *pointer;
39                  d++;
40              }
41              pointer++;
42          }
43          pointer = s;
44      }
45
46      *(result+d) = '\0';
47
48      strcpy(s, result);
49      free(result);
50  }|
```

49:1   ⟳

Open File   ✓ Custom Input   **Run**

Custom Input
pushpitha|

Status Successfully executed   **Date** 2020-06-21 05:42:44   **Time** 0sec   **Mem** 9.424 kB   ✕

Input
pushpitha

Output
Enter some text
ahhippstu

Algorithm

Step 1 :- Start

Step 2 :- create two 2D character array of some fixed capacity

Step 3:- Take the size of the array as input from the user. and fill the array with names taking them as input.

Step 4 :- Now to sort this array, first make a nested for loop with i and j as iterators respectively.

Step 5:- The outer will run from 0 to size -1, extracting each name of position i, one by one.

Step 6 :- The inner loop will run from i+1 to size -1, comparing the name extracted by outer loop to all the names below it.

Step 7 :- At each comparision if the name above is alphabetically greater than the name below, then these two names are interchanged.

Step 8 :- After executing the nested loop code section, we will obtain an array of names in proper alphabetical order.

Step 9 :- Stop.

Flowchart

```
        ┌─────────┐
        │  Start  │
        └─────────┘
             │
             ▼
      ┌──────────────┐
      │  Print list  │
      └──────────────┘
             │
             ▼
          ╱ for ╲
         ╱  i<10 ╲
          ╲     ╱
             │
             ▼
          ╱ for ╲
         ╱ j<=1 ╲
          ╲     ╱
             │
             ▼
       ╱    if     ╲
      ╱ list[j]>list[i] ╲
       ╲            ╱
             │
             ▼
      ┌──────────────┐
      │    Swap      │
      │  list[i] &   │
      │  list[j]     │
      └──────────────┘
             │
             ▼
      ┌──────────────┐
      │    Print     │
      │ sorted list  │
      └──────────────┘
             │
             ▼
        ┌─────────┐
        │  Stop.  │
        └─────────┘
```