Change Theme Language: C

for(int i = 0; i < n; i++){

scanf("%s", \*(arr + i));

char\*\* arr;

**Prepare** > C > Functions > Sorting Array of Strings

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the strings in non-decreasing order of their lengths. If two strings have the same length, then the lexicographically smaller string should appear first.

# **Input Format**

and implement the four string comparison functions.

### **Constraints**

\_eaderboard

Discussions

torial

- You have to write your own sorting function and you cannot use the inbuilt  ${\it qsort}$  function
- The strings consists of lower-case English Alphabets

# **Output Format**

problem statement.

# Sample Input 0

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\*(arr + i) = realloc(\*(arr + i), strlen(\*( 66 67 } 68 string\_sort(arr, n, lexicographic\_sort); 69 for(int i = 0; i < n; i++) 70 printf("%s\n", arr[i]); 71 printf("\n"); 72 73 string\_sort(arr, n, lexicographic\_sort\_reverse 74 for(int i = 0; i < n; i++) 75 printf("%s\n", arr[i]); 76 printf("\n"); 77 78 string\_sort(arr, n, sort\_by\_length); 79 for(int i = 0; i < n; i++) 80 printf("%s\n", arr[i]); 81 printf("\n"); 82 83 string\_sort(arr, n, sort\_by\_number\_of\_distinct) 84 for(int i = 0; i < n; i++) 85 printf("%s\n", arr[i]); 86 87 printf("\n");

arr = (char\*\*)malloc(n \* sizeof(char\*));

\*(arr + i) = malloc(1024 \* sizeof(char));

You just need to complete the function string\\_sort

- 1 < No. of Strings < 50
- 1 < Total Length of all the strings < 2500
- only.

The locked code-stub will check the logic of your code. The output consists of the strings sorted according to the four comparsion functions in the order mentioned in the