

All Contests > 22_PPS1_Lab11 > sort names of students

sort names of students

 locked

Problem

Submissions

Leaderboard

Discussions

Sort names of students without shuffling names (you can use string library functions). Without shuffling means you can not change the location of any name from where it was originally scanned.

Implement (write code for) *sort* function and call it from main to achieve the expected output.

Following function will sort the pointers in pointer array according to names pointed by pointers.

```
void sort(char **names, int number_of_names)
```

Ignore case while sorting.

But output should be in the same case as input.

So if there are two names (Ajay and ajay) in the input. Then in output they should appear in same order as input.

Consider space to be smaller than all alphabets (capital and small case).

End of string is to be considered smaller than all other characters.

Input Format

First line of input will contain number n (number of names to be sorted).

Next n lines contain names of students to be sorted.

Constraints

Range:

 $0 < n \leq 10000$ $0 < \text{number of characters in a name} \leq 200$

Output Format

First line of the output should be number n (number of names sorted).

Next n lines should contain names of students in ascending order.

Sample Input 0

```
8
Roshan kumar
ajay
Karan
Kumar
Ajay Das Ambani
Ajay
Ajaya
Nikunj
```

Sample Output 0

```
8
ajay
Ajay
Ajay Das Ambani
Ajaya
Karan
Kumar
Nikunj
Roshan kumar
```

Explanation 0

Here *ajay* comes before *Ajay* in output, because its the sequence in input.

Sample Input 1

```
1
DDU
```

Sample Output 1

```
1
DDU
```

Sample Input 2

```
4
Kedar
amar
Amar
amar
```

Sample Output 2

```
4
amar
Amar
amar
Kedar
```

Sample Input 3

```
5
c
a
B
A
a
```

Sample Output 3

```
5
a
A
a
B
c
```

Sample Input 4

```
3
Hello
hello
h ello
```

Sample Output 4

```
3
h ello
Hello
hello
```

Sample Input 5

```
3
Advani
Aditya
Adi
```

Sample Output 5

```
3
Adi
Aditya
Advani
```

[f](#) [t](#) [in](#)

Submissions: [106](#)

Max Score: 10

Difficulty: Medium

Rate This Challenge:

☆☆☆☆☆

[More](#)

[Admin Options](#)

[Edit Challenge](#)

[View Submissions](#)

C



```
1▼ #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6▼ int main() {
7
8▼     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
10 }
11
```

Line: 1 Col: 1



Upload Code as File



Test against custom input

Run Code

Submit Code

[Interview Prep](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) |