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#include<stdio.h>
#include<string.h>
#include<stdlib.h>
//note- since in all these functions the array name itself is passed , it acts as an pointer and the changes are made on the array itself. Hence no return value is given.
void sort_normal(char s1[][200],int tot_line)
    //normal sort taking the array with all the
lines from the files and total number of lines as
arguments
        int round,i,r;
      char s[200];
for(round=1; round<=tot_line; round++)
epeating comparison of lines for "tot" number
times
for(i=0: i<=/tot_line 1); i</table>
                                            //function variables
                for(i=0; i<=(tot_line-1); i++)
//comparing all the lines once</pre>
r=strcmp(s1[i],s1[i+1]);
//comparing two lines and switching them if the first characters of first words of the two lines are not in alphabetical order without ignoring the cases
                         if(r>0)
                                 strcpv(s,sl[i]);
strcpv(sl[i],sl[i+1]);
strcpy(sl[i+1],s);
int round,i,r;
char s[200];
for(round=1; r
                                 round<=tot_line; round++)
                 for(i=0; i<=(tot_line-1);</pre>
strcpy(s,s1[i]);
strcpy(s1[i],s1[i+1]);
```

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strcpy(s1[i+1],s);
            }
    }
void sort reverse(char s1[][200], int tot line)
//reversed sort taking the array with all
the lines from the files and total number of
lines as arguments
         int round,i,r;
char s[200];
for(round=1; round<=tot_line; round++)</pre>
                   for(i=0; i<=(tot_line-1); i++)</pre>
r=strcmp(s1[i].s1[i+1]);
//comparing two lines and switching them if
the first characters of first words of the two
lines are in alphabetical order with ignoring
the cases
                            jf(r<0)
                                     strcpv(s,s1[i]);
strcpv(s1[i],s1[i+1]);
strcpy(s1[i+1],s);
void sort icase reverse(char s1[][200].int tot line) // ignore the cases and reverse sort taking the array with all the lines from the files and total number of lines as
arguments
         int round,i,r;
char s[200];
for(round=1; r
                                     round<=tot_line; round++)
                   for(i=0; i<=(tot_line-1); i++)</pre>
r=strcasecmp(s1[i].s1[i+1]);
//comparing two lines and switching them
if the first characters of first words of the
two lines are in alphabetical order with ignoring
two lines
the cases
                            jf(r<0)
                                     strcpv(s,sl[i]);
strcpv(sl[i],sl[i+1]);
strcpy(sl[i+1],s);
```