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// Sorting string data using structure..........
// Summer 2015

#include<stdio.h>
#include<conio.h>
#include<string.h>

struct person
{
               char name[10];
               int rno;
};

typedef struct person NAME;
NAME  stud[10], temp[10];

int main()
{
         int no,i;
         void sort(int N);      /* Function declaration */

         fflush(stdin);

         printf("Enter the number of students in the list\n");
         scanf("%d",&no);

         for(i = 0; i < no; i++)
         {
                 printf("\nEnter the name of  person %d : ", i+1);
                 fflush(stdin);
                 gets(stud[i].name);
                 printf("Enter the roll number of %d : ", i+1);
                 scanf("%d",&stud[i].rno);
                 temp[i] = stud[i];
         }
         printf("\n*****************************\n");
         printf ("     Names before sorting     \n");

     /* Print the list of names before sorting */
         for(i=0;i<no;i++)
         {
                       printf("%-10s\t%3d\n",temp[i].name,temp[i].rno);
         }
         sort(no);       /* Function call */

         printf("\n*****************************\n");
         printf ("     Names after sorting     \n");
         printf("\n*****************************\n");

     /* Display the sorted names */
         for(i=0;i<no;i++)
         {
                       printf("%-10s\t%3d\n",stud[i].name,stud[i].rno);
         }
         printf("\n*****************************\n");

         getch();
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        return 0;
}         /* End of main() */

/* Function to sort the given names */
void sort(int N)
{
                int i,j;
                NAME temp;
                for(i = 0; i < N-1;i++)
                {
                                for(j = i+1; j < N; j++)
                                {
                                        if(strcmp(stud[i].name,stud[j].name)
> 0 )
                                        {
                                                temp    = stud[i];
                                                stud[i] = stud[j];
                                                stud[j] = temp;
                                        }
                                }
                }
}
```