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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)



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Week 10: Programming Assignment 03

Due on 2023-10-05, 23:59 IST

Output

Write a C program to sort a given 1D array using pointer in ascending order.

Input

Sample Test Cases

Course
outline
Outilite
How does an
NPTEL
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course
work? ()
Week 0 : ()
Week 1 ()
Week 2 ()
W1-0 ()
Week 3 ()
Week 4 ()
******* ()
Week 5 ()
Week 6 ()
Week 7 ()

Test Case 1	8 90 70 30 -10 -40 20 100 50	-40 -10 20 30 50 70 90 100
Test Case 2	5 20 40 50 30 10	10 20 30 40 50

The due date for submitting this assignment has passed.

Assignment submitted on 2023-10-05, 21:39 IST

Your last recorded submission was :

```
1 #include <stdio.h>
2 int main()
3 {
4    int a[100],i, n;
5    scanf("%d",&n); //Number of elements of the array is taken from the test
6
```

```
Week 8 ()
```

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

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Problem Solving Session -July 2023 ()

```
7
       for (i=0; i<n; i++)</pre>
 8
             scanf("%d",a+i); // Input the array elements
        }
int j,t;
10
11
12
        for(i=0; i<(n-1); i++)
13
14
             for (j=i+1; j<n; j++)</pre>
15
16
                 if (*(a+i)>*(a+j))
17
                      t=*(a+i);
*(a+i)=*(a+j);
18
19
                      *(a+j)=t;
20
21
22
             }
23
         Printing sorted array in ascending order
24
25
        for (i=0; i<n; i++)
26
27
             printf("%d\n",*(a+i));
28
29
        return 0;
30
       }
```

Sample solutions (Provided by instructor)

```
1 #include <stdio.h>
 2 int main()
 3
 4
        int a[100],i, n;
        scanf("%d",&n); //Number of elements of the array is taken from the test
 5
6
7
      for (i=0; i<n; i++)
 9
            scanf("%d",a+i); // Input the array elements
10
   int j,t;
11
12
   for (i=0; i<(n-1); i++)
13
14
            for (j=i+1; j<n; j++)</pre>
15
16
                 if (*(a+i)>*(a+j))
17
18
                     t=*(a+i);
19
20
                     *(a+i)=*(a+j);
*(a+j)=t;
21
22
23
            }
         Printing sorted array in ascending order
24
   //
25
        for (i=0; i<n; i++)
26
27
            printf("%d\n",*(a+i));
28
29
       return 0;
30
      }
```