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200801168@rajalakshmi.edu.in ✓

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

Week 12 : Programming Assignment 2

Due on 2023-10-19, 23:59 IST

Write a C program to print the Record of the Student Merit wise. Here a structure variable is defined which contains student rollno, name and score.

If already registered, click to check your payment status

Course outline

How does an NPTEL online course work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Private Test cases used for evaluation

Test Case 1

Input

```
4
1
Pradip
900
2
Asutosh
600
3
Santosh
750
4
Sandip
500
```

Expected Output

```
The Merit List
is :
1 Pradip
900
3 Santosh
750
2 Asutosh
600
4 Sandip 500
```

Actual Output

```
The Merit List
is :
1 Pradip
900
3 Santosh
750
2 Asutosh
600
4 Sandip
500
```

Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-10-18, 18:28 IST

Your last recorded submission was :

```
1 #include<stdio.h>
2 struct student
3 {
4     int rollno;
5     char name[20];
6     int score;
```



Week 8 ()**Week 9 ()****Week 10 ()****Week 11 ()****Week 12 ()**

○ Lecture 56 :
Structure
(Contd.) (unit?
unit=109&less
on=110)

○ Lecture 57 :
Structure with
typedef (unit?
unit=109&less
on=111)

○ Lecture 58 :
Pointer (unit?
unit=109&less
on=112)

○ Lecture 59 :
Pointer
(Contd.) (unit?
unit=109&less
on=113)

○ Lecture 60 :
Pointer in
Structures
(unit?
unit=109&less
on=114)

○ Lecture 61 :
Dynamic
Allocation and
File (unit?
unit=109&less
on=115)

● Quiz: Week 12
: Assignment
12
(assessment?
name=279)

● Week 12 :
Programming
Assignment 1
(/noc23_cs121
/progassignm

```

7  };
8  void main()
9  {
10 struct student s[20];
11 int i, n;
12
13 scanf("%d" ,&n); //No. of Students taken from test data
14 // Roll no., Name and Score of n students are taken from test data
15 for(i=0;i<n;i++)
16 {
17 scanf("%d", &s[i].rollno);
18 scanf("%s", s[i].name);
19 scanf("%d", &s[i].score);
20 }
21 //Complete the program so that merit list is printed in descending order
22 struct student temp;
23 int j;
24 for(i=0;i<n-1;i++)
25 {
26     for(j=0;j<n-1;j++)
27     {
28         if(s[j].score<s[j+1].score)
29         {
30             temp=s[j];
31             s[j]=s[j+1];
32             s[j+1]=temp;
33         }
34     }
35 }
36
37 printf("The Merit List is :\n");
38 for(i=0;i<n;i++)
39 {
40 printf("%d", s[i].rollno);
41 printf("  %s", s[i].name);
42 printf("  %d\n", s[i].score);
43 }
44 }
45 }

```

Sample solutions (Provided by instructor)

```

1  #include<stdio.h>
2  struct student
3  {
4  int rollno;
5  char name[20];
6  int score;
7  };
8  void main()
9  {
10 struct student s[20];
11 int i, n;
12
13 scanf("%d" ,&n); //No. of Students taken from test data
14 // Roll no., Name and Score of n students are taken from test data
15 for(i=0;i<n;i++)
16 {
17 scanf("%d", &s[i].rollno);
18 scanf("%s", s[i].name);
19 scanf("%d", &s[i].score);
20 }
21 //Complete the program so that merit list is printed in descending order
22 struct student temp;
23 int j;
24 for(i=0;i<n-1;i++)
25 {
26     for(j=0;j<n-1;j++)
27     {
28         if(s[j].score<s[j+1].score)
29         {
30             temp=s[j];
31             s[j]=s[j+1];
32             s[j+1]=temp;
33         }
34     }
35 }
36 printf("The Merit List is :\n");

```



ent?
name=280)

- ☒ **Week 12 :
Programming
Assignment
2
(/noc23_cs12
1/progassign
ment?
name=281)**

- ☐ Week 12 :
Programming
Assignment 3
(/noc23_cs121
/progassignm
ent?
name=282)

- ☐ Week 12 :
Programming
Assignment 4
(/noc23_cs121
/progassignm
ent?
name=283)

- ☐ Feedback
Form of Week
12 (unit?
unit=109&less
on=284)

- ☐ Assignment
12 Solution
(unit?
unit=109&less
on=117)

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**Problem
Solving
Session -
July 2023 ()**

```
37 for(i=0;i<n;i++)  
38 {  
39 printf("%d", s[i].rollno);  
40 printf(" %s", s[i].name);  
41 printf(" %d\n", s[i].score);  
42 }  
43  
44 }
```



