X

(https://swayam.gov.in) (https://swayam.gov.in/nc_details/NPTEL)

200801168@rajalakshmi.edu.in

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

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 ()

Week 12 : Programming Assignment 3

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

Write a C program to store n elements using Dynamic Memory Allocation - calloc() and find the Largest element

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	6 68.90 34.79 35.86 94.98 40.06 88.70	Largest element = 94.98	Largest element = 94.98\n	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  #include <stdlib.h>
3
4  int main()
5  {
6      int n;
7      float *element;
8
9      scanf("%d", &n); //Total number of elements
10
11     // Allocate the memory for 'n' number of elements.
12     //Then take the elements as input from test data
13 element = (float*) calloc(n, sizeof(float));
14
15     if(element == NULL)
```

```
    {
        printf("Error!!! memory not allocated.");
        exit(0);
    }

    // Stores the number entered by the user.
    int i;
    for(i = 0; i < n; ++i)
    {
        scanf("%f", element + i);
    }

    // find the largest
    for(i = 1; i < n; ++i)
    {
       if(*element < *(element + i))
         *element = *(element + i);
    }
    printf("Largest element = %.2f\n", *element);
    return 0;
}
```

Sample solutions (Provided by instructor)

```
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int n;
    float *element;

    scanf("%d", &n); //Total number of elements

    // Allocate the memory for 'n' number of elements.
    //Then take the elements as input from test data
element = (float*) calloc(n, sizeof(float));

    if(element == NULL)
    {
        printf("Error!!! memory not allocated.");
        exit(0);
    }

    // Stores the number entered by the user.
    int i;
    for(i = 0; i < n; ++i)
    {
        scanf("%f", element + i);
    }

 // find the largest
    for(i = 1; i < n; ++i)
    {
       if(*element < *(element + i))
         *element = *(element + i);
    }

    printf("Largest element = %.2f\n", *element);

    return 0;
}
```

ent?
name=280)

- Week 12 : Programming Assignment 2 (/noc23_cs121/progassignment?name=281)
- **Week 12 : Programming Assignment 3 (/noc23_cs121/progassignment?name=282)**
- Week 12 : Programming Assignment 4 (/noc23_cs121/progassignment?name=283)
- Feedback Form of Week 12 (unit?unit=109&lesson=284)
- Assignment 12 Solution (unit?unit=109&lesson=117)

DOWNLOAD VIDEOS ()

Books ()

Text Transcripts ()

Problem Solving Session - July 2023 ()