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



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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

Course outline
How does an
NPTEL
online
course
work? ()
Week 0 : ()
Week 1 ()
14 1 0 0
Week 2 ()
Week 3 ()
Week 4 ()
Week 5 ()
Week 6 ()
Week 7 ()

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 :

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

int main()

fint 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)
```

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

- Lecture 56:Structure(Contd.) (unit?unit=109&lesson=110)
- Lecture 57:Structure with typedef (unit? unit=109&less on=111)
- Lecture 58:Pointer (unit?unit=109&lesson=112)
- Lecture 59:Pointer(Contd.) (unit?unit=109&lesson=113)
- Lecture 60:Pointer inStructures(unit?unit=109&lesson=114)
- Lecture 61:
 Dynamic
 Allocation and
 File (unit?
 unit=109&less
 on=115)
- Quiz: Week 12: Assignment12(assessment?name=279)
- Week 12:

 Programming
 Assignment 1
 (/noc23_cs121
 /progassignm

```
16
         {
 17
              printf("Error!!! memory not allocated.");
 18
              exit(0);
 19
         }
 20
         // Stores the number entered by the user.
 21
         int i;
for(i = 0; i < n; ++i)
 22
 23
 24
 25
              scanf("%f", element + i);
 26
         }
 27
 28
         // find the largest
 29
         for(i = 1; i < n; ++i)
 30
 31
             if(*element < *(element + i))</pre>
               *element = *(element + i);
 32
 33
 34
         printf("Largest element = %.2f\n", *element);
 35
         return 0;
 36 }
Sample solutions (Provided by instructor)
  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
         // Allocate the memory for 'n' number of elements.
 11
          //Then take the elements as input from test data
 12
 13
     element = (float*) calloc(n, sizeof(float));
 14
 15
         if(element == NULL)
 16
 17
              printf("Error!!! memory not allocated.");
 18
              exit(0);
 19
         }
 20
 21
         // Stores the number entered by the user.
         int i;
 22
 23
         for(i = 0; i < n; ++i)
 24
         {
 25
26
              scanf("%f", element + i);
         }
 27
28
      // find the largest
 29
         for(i = 1; i < n; ++i)
 30
 31
             if(*element < *(element + i))</pre>
               *element = *(element + i);
 32
 33
 34
 35
         printf("Largest element = %.2f\n", *element);
 36
 37
         return 0;
 38 }
```

ent? name=280)

- Week 12:
 Programming
 Assignment 2
 (/noc23_cs121
 /progassignment?
 name=281)
- Week 12:

 Programmin
 g Assignment

 (/noc23_cs12
 1/progassignment?
 name=282)
- Week 12:
 Programming
 Assignment 4
 (/noc23_cs121
 /progassignment?
 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 ()