

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



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# Thank you for taking the Week 6 : Assignment 6.

## Week 6 : Assignment 6

Your last recorded submission was on 2023-09-03, 20:43 Due date: 2023-09-06, 23:59 IST.

- 1) What is an array in C? **1 point**
- ☒ a) A collection of similar data elements with the same data type.
  - ☐ b) A built-in function that performs mathematical calculations.
  - ☐ c) A keyword used for declaring variables.
  - ☐ d) A data type used to store characters only.
- 2) What is the index of the first element in an array? **1 point**
- ☒ a) 0
  - ☐ b) 1
  - ☐ c) -1
  - ☐ d) The index can vary depending on the array size.
- 3) Which loop is commonly used to iterate through all elements of an array in C? **1 point**
- ☒ a) for loop
  - ☐ b) while loop
  - ☐ c) do-while loop
  - ☐ d) switch loop
- 4) An integer array of 15 elements is declared in a C program. The memory location of the first byte of the array is 2000. What will be the location of the 13th element of the array? Assume int takes 2 bytes of memory. **1 point**

### Course outline

How does an  
NPTEL  
online  
course  
work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

☐ Lecture 26:  
Introduction  
to Arrays

Assessment submitted.  
X

(unit?

unit=61&amp;lesso

n=62)

☐ Lecture 27:

Arrays

(Contd.) (unit?

unit=61&amp;lesso

n=63)

☐ Lecture 28:

Arrays

(Contd.) (unit?

unit=61&amp;lesso

n=64)

☐ Lecture 29:

Program

using Arrays

(unit?

unit=61&amp;lesso

n=65)

☐ Lecture 30:

Array

Problem

(unit?

unit=61&amp;lesso

n=66)

☒ Quiz: Week 6  
: Assignment  
6
(assessment?  
name=242)
☒ Week 6 :

Programming

Assignment 1

(/noc23\_cs121

/progassignm

ent?

name=243)

☒ Week 6 :

Programming

Assignment 2

(/noc23\_cs121

/progassignm

ent?

name=244)

☒ Week 6 :

Programming

Assignment 3

(/noc23\_cs121

/progassignm

ent?

name=245)

☐ a) 2013

☒ b) 2024

☐ c) 2026

☐ d) 2030

5)

1 point

How can you find the sum of all elements in a 1D array "arr" with 5 elements using loop in C?

a) `sum = arr[0] + arr[1] + arr[2] + arr[3] + arr[4];`b) `sum = arr[5];`c) `for (int i = 0; i <= 5; i++) { sum += arr[i]; }`d) `for (int i = 0; i < 5; i++) { sum += arr[i]; }`
☐ Option (a)

☐ Option (b)

☐ Option (c)

☒ Option (d)

6)

1 point

What is the output of the following code?

```
#include <stdio.h>
int main()
{
    int arr[] = {1, 2, 3, 4, 5};
    int i = 0;
    while (i < 5) {
        printf("%d ", arr[i]);
        i += 2;}
    return 0;
}
```

☒ a) 1 3 5

☐ b) 1 2 3 4 5

☐ c) 1 2 3

☐ d) 1 4

Assessment submitted.  
X

Week 6:  
Programming  
Assignment 4  
(/noc23\_cs121  
/progassignment?  
ent?  
name=246)

Feedback  
Form of Week  
6 (unit?  
unit=61&lesso  
n=247)

Week 7 ()

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Solving  
Session -  
July 2023 ()

7)

What will be the output?

```
#include <stdio.h>
int main()
{
    int arr[]={1,2,3,4,5,6};
    int i,j,k;
    j=++arr[2];
    k=arr[1]++;
    i=arr[j++];
    printf("i=%d, j=%d, k=%d", i, j, k);
    return 0;
}
```

- ☒ a) i=5, j=5, k=2  
☐ b) i=6, j=5, k=3  
☐ c) i=6, j=4, k=2  
☐ d) i=5, j=4, k=2

1 point

8)

What will be the output after execution of the program?

```
#include <stdio.h>
int main()
{
    int i, a[4]={3,1,2,4}, result;
    result=a[0];
    for(i=1; i<4; i++)
    {
        if(result>a[i])
            continue;
        result=a[i];
    }
    printf("%d", result);
    return 0;
}
```

- ☐ a) 1  
☐ b) 2  
☐ c) 3  
☒ d) 4

1 point

Assessment submitted.

X

9)

What will be the output?

```
#include<stdio.h>
int main()
{
    int n = 2;
    int sum = 5;
    switch(n)
    {
        case 2: sum = sum-3;
        case 3: sum*=4;
        break;
        default:
            sum =0;
    }
    printf("%d", sum);
    return 0;
}
```

1 point

10)

Find the output of the following C program

```
#include<stdio.h>
int main()
{
    int a;
    int arr[5] = {1, 2, 3, 4, 5};
    arr[1] = ++arr[1];
    a = arr[1]++;
    arr[1] = arr[a++];
    printf("%d, %d", a, arr[1]);
    return 0;
}
```

- ☐ a) 5, 4
- ☐ b) 5, 5
- ☒ c) 4, 4
- ☐ d) 3, 4

1 point

You may submit any number of times before the due date. The final submission will be considered for grading.