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[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » [Problem solving through Programming In C \(course\)](#)
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Unit 8 - Week 6

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 (unit?
unit=7&lesson=40)
- Lecture 27:
Arrays (Contd.)
(unit?
unit=7&lesson=41)
- Lecture 28:
Arrays (Contd.)
(unit?
unit=7&lesson=42)

Assignment 6

The due date for submitting this assignment has passed. **Due on 2020-03-11, 23:59 IST.**
As per our records you have not submitted this assignment.

1) Which of the following statement(s) is/are correct ? 1 point

```
int num[7];
num[7]=8;
```

- ☐ a) In the first statement 7 specifies a particular element, whereas in the second statement it specifies a type;
- ☐ b) In the first statement 7 specifies a particular element, whereas in the second statement it specifies the array size.
- ☐ c) In the first statement 7 specifies the array size, whereas in the second statement it specifies a particular element of array.
- ☐ d) In both the statement 7 specifies array size.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) In the first statement 7 specifies the array size, whereas in the second statement it specifies a particular element of array.

2) What is the right way to initialize array in C? 1 point

- ☐ a) `int arr[]={1,2,5,6,9}`
- ☐ b) `int arr[5]={1,2,5,6,9}`
- ☐ c) `int arr{5}={1,2,5,6,9}`
- ☐ d) `int arr()={1,2,5,6,9}`

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) `int arr[5]={1,2,5,6,9}`

● Lecture 29:
Program using
Arrays (unit?
unit=7&lesson=43)

● Lecture 30:
Array Problem
(unit?
unit=7&lesson=44)

○ Quiz :
Assignment 6
(assessment?
name=124)

○ Week-06
Program-01
(/noc20_cs06/progassignment?
name=125)

○ Week-06
Program-02
(/noc20_cs06/progassignment?
name=126)

○ Week-06
Program-03
(/noc20_cs06/progassignment?
name=127)

○ Week-06
Program-04
(/noc20_cs06/progassignment?
name=128)

○ Week-06
Program-05
(/noc20_cs06/progassignment?
name=129)

○ Feedback For
Week 6 (unit?
unit=7&lesson=139)

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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**Assignment
Solution**

3) An integer array of size 10 is declared in a C program. The memory location of the first byte of the array is 1000. What will be the location of the 7th element of the array? (integer takes 2 bytes of memory) **1 point**

- ☐ a) 1014
☐ b) 1012
☐ c) 1010
☐ d) 1016

No, the answer is incorrect.
Score: 0

Accepted Answers:

b) 1012

4) Which of the statement is correct?

- ☐ a) An array may contain more than one element
☐ b) All elements of array has to be of same data type
☐ c) The size of array has to be declared upfront
☐ d) All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) All of the above

5) 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;
}
```

Hint

No, the answer is incorrect.
Score: 0

Accepted Answers:

(Type: Numeric) 4

1 point

1 point

6) Which assignment is not valid for integer arrays in C programming? (arr, arr1 and arr2 are integer arrays) **1 point**

- ☐ a) arr[4]={1,2,5,3,4};
- ☐ b) arr[]={1,2,3,4}
- ☐ c) arr1=arr2
- ☐ d) All are valid assignment

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) *arr1=arr2*

7)

What will be the output?

1 point

```
#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
- ☐ a) i=6, j=4, k=2
- ☐ d) i=5, j=4, k=2

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) *i=5, j=5, k=2*

8)

What will be the output when the following code is executed.

```
#include <stdio.h>
int main()
{
    int a[6]={1,2,3,4,5,6};
    switch(sizeof(a))
    {
        case 1:
        case 2:
        case 3:
        case 4:
        case 5:
            printf("IIT KGP");
            break;
    }
    printf("IIT MADRAS");
    return 0;
}
```

Hint

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: String) IIT MADRAS

1 point

9)

How many 'a' will be printed when the following code is executed?

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

```
int main()
```

```
{
```

```
    int i = 0;
```

```
    char c = 'a';
```

```
    while (i < 5)
```

```
    {
```

```
        i++;
```

```
        switch (c)
```

```
        {
```

```
            case 'a':
```

```
                printf("%c ", c);
```

```
                break;
```

```
        }
```

```
    }
```

```
    printf("a\n");
```

```
    return 0;
```

```
}
```

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Numeric) 6

1 point

10

1 point

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) 4,4