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



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Course outline

How does an NPTEL online course work? ()

Week 0: ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6: Assignment 6

The due date for submitting this assignment has passed.

Due on 2023-09-06, 23:59 IST.

Assignment submitted on 2023-09-03, 20:43 IST

a) A colle	ction o	f 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.

Yes, the answer is correct.

1) What is an array in C?

Score: 1

Accepted Answers:

a) A collection of similar data elements with the same data type.

2) What is the index of the first element in an array?

1 point

1 point

- a) 0
- (b) 1
- C) -1
- d) The index can vary depending on the array size.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a) 0

3) Which loop is commonly used to iterate through all elements of an array in C?

1 point

Week 6 ()

- Lecture 26: Introduction to Arrays (unit? unit=61&lesso n=62)
- Contd.) (unit? unit=61&lesso n=63)
- Lecture 28:
 Arrays
 (Contd.) (unit?
 unit=61&lesso
 n=64)
- Lecture 29: Program using Arrays (unit? unit=61&lesso n=65)
- Lecture 30:
 Array
 Problem
 (unit?
 unit=61&lesso
 n=66)
- Quiz: Week 6: Assignment6(assessment?name=242)
- Week 6:

 Programming
 Assignment 1
 (/noc23_cs121
 /progassignment?
 name=243)
- Week 6:
 Programming
 Assignment 2
 (/noc23_cs121
 /progassignment?
 name=244)
- Week 6 : Programming

- a) for loop
 b) while loop
 c) do-while loop
 d) switch loop
 Yes, the answer is correct.
 Score: 1
 Accepted Answers:
- 4) An integer array of 15 elements is declared in a C program. The memory location of **1 point** 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.
 - a) 2013

a) for loop

- b) 2024
- c) 2026
- d) 2030

Yes, the answer is correct.

Score: 1

Accepted Answers:

b) 2024

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; $i \le 5$; i++) { sum += arr[i]; }
- d) for (int i = 0; i < 5; i++) { sum += arr[i]; }
 - Option (a)
 - Option (b)
 - Option (c)
 - Option (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

Option (d)

```
Assignment 3 (/noc23_cs121 /progassignm ent? name=245)
```

- Week 6:
 Programming
 Assignment 4
 (/noc23_cs121
 /progassignment?
 name=246)
- Feedback
 Form of Week
 6 (unit?
 unit=61&lesso
 n=247)
- Assignment 6
 Solution (unit?
 unit=61&lesso
 n=68)

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

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Problem Solving Session -July 2023 ()

```
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) 135
  b) 1 2 3 4 5
  0 c) 1 2 3
  (d) 14
Yes, the answer is correct.
Score: 1
Accepted Answers:
a) 135
7)
                                                                             1 point
     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[i++];
        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
  o) i=6, j=4, k=2
  d) i=5, j=4, k=2
Yes, the answer is correct.
Score: 1
Accepted Answers:
a) i=5, j=5, k=2
```

```
8)
                                                                         1 point
     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
  Oc) 3
  (a) 4
Yes, the answer is correct.
Score: 1
Accepted Answers:
d) 4
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;
8
```

```
Hint
 Yes, the answer is correct.
 Score: 1
 Accepted Answers:
 (Type: Numeric) 8
                                                                              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
  ob) 5, 5
  © c) 4, 4
  (d) 3, 4
 Yes, the answer is correct.
 Score: 1
 Accepted Answers:
 c) 4, 4
```