Χ



200801199@rajalakshmi.edu.in ~

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



Click to register for Certification exam

(https://examform.nptel.ac

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 ()

Wee	k6:	Assig	nment	6
.in/2023_10/	exam_torm	/dashboard) 🍑		

Your last recorded submission was on 2023-08-30, 20:51 Due date: 2023-09-06, 23:59 IST. IST

1) What is an array in C?

- 1 point
- (a) A collection of similar data elements with the same data type.
- Ob) A built-in function that performs mathematical calculations.
- Oc) A keyword used for declaring variables.
- Od) A data type used to store characters only.
- 2) What is the index of the first element in an array?

1 point

- a) 0
- Ob) 1
- Oc) -1
- Od) 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
- Ob) while loop
- Oc) do-while loop
- Od) switch loop
- 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.
 - Oa) 2013

Week 6 ()

DOWNLOAD VIDEOS ()

Books ()

Text
Transcripts ()

Problem Solving Session -July 2023 ()

```
Ob) 2024
```

- Oc) 2026
- Od) 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; $i \le 5$; i++) { sum += arr[i]; }
- d) for (int i = 0; i < 5; i++) { sum += arr[i]; }
 - Option (a)
 - Option (b)
 - Option (c)
 - Option (d)
- What is the output of the following code?

1 point

```
#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;
}</pre>
```

- Oa) 135
- Ob) 12345
- Oc) 123
- Od) 14

```
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[j++];
        printf("i=%d, j=%d, k=%d", i, j, k);
     return 0;
     }
  o a) i=5, j=5, k=2
  ○ b) i=6, j=5, k=3
  Oc) i=6, j=4, k=2
  Od) 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;
      }
  Oa) 1
  Ob) 2
  Oc) 3
  Od) 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
                                                                            1 point
 10)
                                                                            1 point
       Find the output of the following C program
       #include<stdio.h>
        int main()
               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;
       }
   Oa) 5, 4
   Ob) 5, 5
   O c) 4, 4
   Od) 3, 4
You may submit any number of times before the due date. The final submission will be
considered for grading.
 Submit Answers
```