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Courses » Introduction to Programming in C

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Quiz on Arrays and Pointers

Course outline

Introduction - Variables, Expressions and Conditionals

Loop Constructs in C

Assignment 1

More on Data Types and Operators

Functions

Assignment 2

Arrays and Pointers

Assignment 3

○ Assignment : Lexicographically preceding permutation

○ Assignment : Count occurences of pattern string

○ Assignment : Print Subarray

○ Assignment

Due on 2014-10-17, 23:59 IST
Due on October 17, 2014. 11:59 pm IST

1)What is the output of the following program?   *1 point*

```
#include <stdio.h>

void foo(int a[])
{
    a[0]=10;
    printf("%d",a[0]);
    return ;
}

int main()
{
    int a[]={1,2,3};
    foo(a);
    printf("%d",a[0]);
    return 0;
}
```
○ 11
● 101
○ 1010
○ 110

2)What is the output of the following program?   *1 point*

```
#include<stdio.h>

int main()
{
    int size, i;
    size=5;
    int arr[size]={1,2,3,4,5};
    for(i=1; i<=size;i++)
    {
        printf("%d", arr[i]);
    }
    return 0;
```

}

○ 12345
○ 2345
○ 23456
◉ None of These

3) In C, if you pass an array as an argument to a function, what actually gets passed?   **1 point**

○ Value of elements in array
○ First element of the array
◉ Base address of the array
○ Address of the last element of array

4) What will be output if you will execute following c code?   **1 point**

```c
#include<stdio.h>
void main(){
    char arr[17]="The African Queen";
    printf("%s",arr);
}
```

○ The African Queen
○ The African Quee
○ he African Queen
◉ Error

5) What is the valid statement that you can make about the output of the following code?   **1 point**

```c
#include<stdio.h>

void fun(int * a)
{
    int ** x=&a;
    printf("%u\n",x);
    return ;
}
int main(){
    int a[5]={1,2,3,4,5};
    int * b = a;
    int ** y=&b;
    printf("%u\n",y);
    fun(b);
    return 0;
}
```

○ Both the printed values are necessarily the same
○ Both the printed values are necessarily different
◉ Both the printed values may be same
○ None of these

6) What will be output if you will execute following C code?   **1 point**

```c
#include<stdio.h>
void main(){
```

```
char arr[20]="MysticRiver";
printf("%d",sizeof(arr));
}
```

- ○ 11
- ● 20
- ○ 44
- ○ 80

7)What is the output of the following code?   *1 point*

```
#include<stdio.h>

int main()
{
    int a[5] = {5, 1, 15, 20, 25};
    int i, j, m;
    i = ++a[1];
    j = a[1]++;
    m = a[i++];
    printf("%d, %d, %d", i, j, m);
    return 0;
}
```

- ○ 2 2 15
- ○ 3 2 20
- ○ 3 1 20
- ● 3 2 15

8)Which of the following are correct ways to initialize an array? (There may   *1 point*
be multiple answers.)
- ☑ int num[]={1,2,3,4}
- ☐ int num{}={1,2,3,4};
- ☑ int num[4]={1,2,3,4};
- ☐ int num()={1,2,3,4};

9)What will be the output of the following program?   *1 point*

```
#include<stdio.h>
int main(){
    int a = 330;
    char *p;
    p =( char *)&a;
    printf("%d ",*p);
    return 0;
}
```

- ○ 330
- ● 74
- ○ 54
- ○ 331

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

Submit Answers

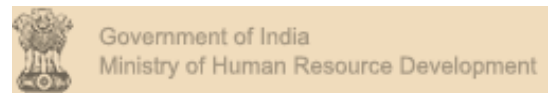© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs - $8+1$ ⟨ 0

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