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NPTEL

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Courses » Programming, Data structures and Algorithms using C

Announcements **Course** Ask a Question Progress

Unit 3 - Week 2: Arrays, Pointers and Strings



Course outline

Assignment0

Week 1: Basic Programming Constructs

Week 2: Arrays, Pointers and Strings

- Introduction to arrays
- Working with 1D arrays
- Find prime numbers
- Debugging demo
- Multi-dimensional arrays
- Pointers
- More on pointers
- Arrays and pointer arithmetic
- Introduction to Strings
- More on Strings
- Week 2 Slides PDF
- Quiz : Week 2 Quiz
- Programming Assignment 2.1 : Print Lower Triangle of a Matrix
- Programming Assignment 2.2

Week 2 Quiz

The due date for submitting this assignment has passed. **Due on 2018-02-21, 23:59 IST.** As per our records you have not submitted this assignment.

1) Which of the following is the correct way to initialise an array? 1 point

- `int num[6]={2,4,12,5,45,5}`
- `int num[]={2,4,12,5,45,5}`
- `int num{6}={2,4,12}`
- `int num(6)={2,4,12,5,45,5}`

No, the answer is incorrect.

Score: 0

Accepted Answers:

`int num[6]={2,4,12,5,45,5}`

2) In an array, elements are always stored in _____ memory locations. 1 point

- Sequential
- Random
- Both a & b
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Sequential

3) What is the output of following C program? 1 point

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

- 1
- 2
- 0
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

: Transpose of a Matrix

- Programming Assignment 2.3 : Lexicographically smallest palindrome
- Programming Assingment 2.4: Check anagram
- Week 2 - Feedback

Week 3: Functions, Time complexity

Week 4: Sorting and Searching Algorithms

Week 5: Structures, Dynamic Memory Allocation and ADTs

Week 6: Stacks, Queues, Heaps, Trees and Graphs

Week 7: Greedy Algorithms and Dynamic Programming

Week 8 : Hash Tables & Graph Algorithms

Week 9 : Graph Traversal, Articulation Points, File I/O, Modular programming

Help and FAQ

Interactive session with students

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4) What is the output of the following program?

1 point

```
#include<stdio.h>
void main()
{
    int *ptr;
    int x;
    ptr=&x;
    *ptr=5;
    printf("x=%d\n",x);
    printf("**ptr=%d", *ptr);
}
```

- x=gabbage value
- *ptr=5
- x=5
- *ptr=5
- x=5
- *ptr=gabbage value
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

x=5

*ptr=5

5) What is the output of the following code snippet?

1 point

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

- 2
- 5
- 1
- 4

No, the answer is incorrect.

Score: 0

Accepted Answers:

1

6) Statement 1: char *a="Hello" represents a pointer to constant string.
Statement 2: char a[]="Hello" represents constant pointer to a string.

1 point

- Statement 1 is false and Statement 2 is true.
- Statement 1 is false and Statement 2 is false.
- Statement 1 is true and Statement 2 is true.
- Statement 1 is true and Statement 2 is false.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Statement 1 is true and Statement 2 is true.



7) What does the following program print? 1 point

```
void main()
{
int a=1;
printf("size of a is %d", sizeof(++a));
}
```

Size of the integer in bits.

Size of the integer in bytes.

Both a & b

None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
Size of the integer in bytes.

8) If two strings are identical, the strcmp() function returns ____ 1 point

1

0

-1

True

No, the answer is incorrect.

Score: 0

Accepted Answers:
0

9) Statement 1: ++(*ptr) increments the value pointed at by ptr. 1 point
Statement 2: *(ptr++) evaluates the value currently pointed at by ptr and increments the value of ptr.

Statement 1 is false and Statement 2 is false.

Statement 1 is true and Statement 2 is true.

Statement 1 is true and Statement 2 is false.

Statement 1 is false and Statement 2 is true.

No, the answer is incorrect.

Score: 0

Accepted Answers:
Statement 1 is true and Statement 2 is true.

10) Which of the following represents an empty string? 1 point

\0

0

Both

None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
Both



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End

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