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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 7: Assignment 7

The due date for submitting this assignment has passed.

Due on 2023-09-13, 23:59 IST.

Assignment submitted on 2023-09-08, 09:20 IST

1) Which of the following statements are correct?

1 point

- 1) A string is a collection of characters terminated by '\0'.
- 2) The format specifier %s is used to print a string.
- 3) The length of the string can be obtained by strlen().
- 4) strcon() function is used to join two strings.

- ☐ a) 1,2
- ☒ b) 1,2,3
- ☐ c) 2,4
- ☐ d) 1,3

Yes, the answer is correct.

Score: 1

Accepted Answers:

b) 1,2,3

2) The right method of initializing a 2D array is

1 point

- ☒ a) `int abc[2][2] = {1, 2, 3, 4 }`
- ☐ b) `int abc[][] = {1, 2, 3, 4 }`
- ☐ c) `int abc[2][] = {1, 2, 3, 4 }`
- ☐ d) all of the above

Yes, the answer is correct.

Week 6 ()**Week 7 ()**

● Lecture 31 :
Linear Search
(unit?
unit=69&lesso
n=70)

● Lecture 32 :
Character
Array and
Strings (unit?
unit=69&lesso
n=71)

● Lecture 33 :
String
Operations
(unit?
unit=69&lesso
n=72)

● Lecture 34 : 2-
D Array
Operation
(unit?
unit=69&lesso
n=73)

● Lecture 35 :
Introducing
Functions
(unit?
unit=69&lesso
n=74)

● Quiz: Week 7:
Assignment 7
(assessment?
name=248)

● Week 7 :
Programming
Assignment 1
(/noc23_cs121
/progassignme
nt?name=249)

● Week 7 :
Programming
Assignment 2
(/noc23_cs121
/progassignme
nt?name=250)

● Week 7 :
Programming

Score: 1

Accepted Answers:

a) `int abc[2][2] = {1, 2, 3, 4}`

3) Array passed as an argument to a function is interpreted as

1 point

- ☐ a) Address of all the elements in an array
- ☐ b) Value of the first element of the array
- ☒ c) Address of the first element of the array
- ☐ d) Number of element of the array

Yes, the answer is correct.

Score: 1

Accepted Answers:

c) *Address of the first element of the array*

4) What will be the output?

```
#include <stdio.h>
int main()
{
    int disp[3][4] = {{5, 6, 8, 2}, {4, 5, 3, 7}, {1,10,13,15}};
    printf("%d\n", disp[2][1]);
    return 0;
}
```

10

Hint

Yes, the answer is correct.

Score: 1

Accepted Answers:

(Type: Numeric) 10

1 point

5) Find the output of the following C program.

```
#include <stdio.h>
int main()
{
    char a[10][8] = {"hi", "hello", "fellows"};
    printf("%s", a[2]);
    return 0;
}
```

- ☒ a) fellows
- ☐ b) h
- ☐ c) fello
- ☐ d) Compiler error

Yes, the answer is correct.

1 point

Assignment 3
(/noc23_cs121
/progassignment?name=251)

● Week 7 :
Programming
Assignment 4
(/noc23_cs121
/progassignment?name=252)

○ Feedback
Form of Week
7 (unit?
unit=69&less
on=255)

Week 8 ()

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Problem
Solving
Session -
July 2023 ()

Score: 1

Accepted Answers:

a) fellows

6)

What will be the output?

```
#include <stdio.h>
int main()
{
    char str1[] = "Week-7-Assignment";
    char str2[] = {'W', 'e', 'e', 'k', '-', '7', '-', 'A', 's', 's', 'i', 'g', 'n', 'm', 'e', 'n', 't'};
    int n1 = sizeof(str1)/sizeof(str1[0]);
    int n2 = sizeof(str2)/sizeof(str2[0]);
    printf("n1 = %d, n2 = %d", n1, n2);
    return 0;
}
```

- ☒ a) n1=18, n2=17
☐ b) n1=18, n2=18
☐ c) n1=17, n1=17
☐ d) n1=17, n2=18

Yes, the answer is correct.

Score: 1

Accepted Answers:

a) n1=18, n2=17

7)

Consider the following C program segment:

```
#include<stdio.h>
#include<string.h>
int main()
{
    char p[20];
    char s[] = "string";
    int length = strlen(s);
    int i;
    for (i = 0; i < length; i++)
        p[i] = s[length - i];
    printf("%s", p);
    return 0;
}
```

The output would be-

- ☐ a) gnirts
☐ b) gnirt
☐ c) string

1 point

1 point

☒ d) no output is printed

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) no output is printed

8) If the starting address of an float array Arr[10][10] is 2000, what would be the memory address of the element Arr[5][6]? (float takes 4 bytes of memory)

1 point

☐ a) 2268

☐ b) 2120

☒ c) 2224

☐ d) 2144

Yes, the answer is correct.

Score: 1

Accepted Answers:

c) 2224

9) In C, the placement of elements of a two dimensional array is

1 point

☒ a) Row wise

☐ b) Column wise

☐ c) Diagonal wise

☐ d) Bottom to top wise

Yes, the answer is correct.

Score: 1

Accepted Answers:

a) Row wise

10)

What will be the value of 'i' after the execution of the C code fragment given below?

```
static char str1[] = "dills";
static char str2[20];
static char str3[] = "daffo";
int i;
i = strcmp(strcat(str3, strcpy(str2, str1)), "daffodills");
```

0

Hint

Yes, the answer is correct.

Score: 1

Accepted Answers:

(Type: Numeric) 0

1 point

