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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Problem solving through Programming In C (course)**[Announcements \(announcements\)](#) **About the Course** (https://swayam.gov.in/nd1_noc20_cs06/preview)[Ask a Question \(forum\)](#) [Progress \(student/home\)](#) [Mentor \(student/mentor\)](#)

Unit 9 - Week 7

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

- ☒ Lecture 31 :
Linear Search
(unit?
unit=8&lesson=45)
- ☐ Lecture 32 :
Character Array
and Strings
(unit?
unit=8&lesson=46)

Assignment 7

The due date for submitting this assignment has passed. **Due on 2020-03-18, 23:59 IST.**
As per our records you have not submitted this assignment.

1) In C language the last character of a string is

1 point

- ☐ a) \n
- ☐ b) \0
- ☐ c) \b
- ☐ d) \t

No, the answer is incorrect.
Score: 0

Accepted Answers:

b) \0

2) Consider the following declaration of a two-dimensional array in C: 1 point

char A[100][100];

Assuming that the main memory is byte-addressable and that the array is stored starting from memory address 0, the address of A[40][50] is

- ☐ a) 4040
- ☐ b) 4050
- ☐ c) 5040
- ☐ d) 5050

No, the answer is incorrect.
Score: 0

Accepted Answers:

b) 4050

3)

1 point

☐ Lecture 33 :
String
Operations
(unit?
unit=8&lesson=47)

☐ Lecture 34 : 2-D
Array Operation
(unit?
unit=8&lesson=48)

☒ Lecture 35 :
Introducing
Functions (unit?
unit=8&lesson=49)

☐ Quiz :
Assignment 7
(assessment?
name=132)

☐ Week-07
Program-01
(/noc20_cs06/progassignment?
name=133)

☐ Week-07
Program-02
(/noc20_cs06/progassignment?
name=134)

☐ Week-07
Program-03
(/noc20_cs06/progassignment?
name=135)

☐ Week-07
Program-04
(/noc20_cs06/progassignment?
name=136)

☐ Week-07
Program-05
(/noc20_cs06/progassignment?
name=137)

☐ Feedback For
Week 7 (unit?
unit=8&lesson=141)

Week 8

Week 9

Week 10

Week 11

Week 12

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What will be the output of the following code?

```
# 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

No, the answer is incorrect.
Score: 0

Accepted Answers:

a) *n1=18, n2=17*

4) Which of the following is a disadvantage of linear search?

1 point

- ☐ a) Requires more space
☐ b) Greater time complexities compared to other searching algorithms
☐ c) Not easy to understand
☐ d) All of the mentioned

No, the answer is incorrect.
Score: 0

Accepted Answers:

b) *Greater time complexities compared to other searching algorithms*

**Assignment
Solution**

5) What will be the output?

1 point

```
#include<stdio.h>
#include<string.h>
int main()
{
    char str1[20] = "hello", str2[20] = " world";
    printf("%s", strcpy(str2, strcat(str1, str2)));
    return 0;
}
```

- ☐ a) hello
- ☐ b) world
- ☐ c) world hello
- ☐ d) hello world

No, the answer is incorrect.
Score: 0

Accepted Answers:

d) *hello world*

6)

1 point

To get the output as “Hwi oreá”, what should be the condition inside the ‘if’ statement?

```
#include<stdio.h>
int main()
{
    int i;
    char s[] = "How is your exam";
    for(i = 0; s[i] != '\0'; ++i)
    {
        if(_____)
            printf("%c", s[i]);
    }
    return 0;
}
```

- ☐ a) $(i\%3) == 0$
- ☐ b) $(i\%2) == 0$
- ☐ c) $(s[i]\%3) == 0$
- ☐ d) $(s[i]\%2) == 0$

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) (i%2) == 0

7)

1 point

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");
```

- ☐ a) 0
- ☐ b) 1
- ☐ c) -1
- ☐ d) None

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) 0

8)

1 point

What will be the output?

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

- ☐ a) assignment
- ☐ b) tnemngissa
- ☐ c) nothing will be printed
- ☐ d) tttttttt

No, the answer is incorrect.
Score: 0

Accepted Answers:

c) nothing will be printed

9) What will be the output?

```
#include<stdio.h>
void fu(int, int);
int main()
{
    char x=67, y='C';
    fu(x,y);
    return 0;
}
void fu(int x, int y)
{
    printf("%d,%d", x, y);
}
```

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: String) 67,67

1 point

10) What will be returned by the function f(1)?

```
int f(int n)
{
    static int i = 1;
    if (n >= 5)
        return n;
    n = n+i;
    i++;
    return f(n);
}
```

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Numeric) 7

1 point