

ESC101 – QUIZ 1 Session 1

Total points ?

The quiz will be conducted in two sessions of 20 minutes each with a gap of 10 minutes in between two sessions.

Read all instructions mentioned in the problem statement carefully before attempting it and try to keep your answers precise. Make sure to submit your response on time. Auto-submission is not available and if you fail to submit on time, you will get zero marks. If there are any issues like internet/power outage contact your Tutor ASAP.

Email address *

harshitr20@iitk.ac.in

0 of 0 points

Name *

Harshit Raj

Roll no *

200433

Problem 1

What is the value printed by each of the program snippets below?
(If the snippet contains compilation error or runtime error or infinite loop, say Error).



1. a.

```
int a = 48; int b = a++;  
while(b!=a+1) {  
    b = a++;  
}  
printf("%d", b);
```

Error



Correct answers

Error (Infinite Loop)

Error

error

Runtime error

1.b.

```
char c = 5; int count = -93;  
while(c) {  
    ++c;  
    count++;  
}  
printf("Done!  %d", count);
```

Done! 158



Correct answer

Done! 158



1.c.

```
int c = 'a';  
while(c!=100) {  
    printf("%c", ++c + 5);  
}
```

ghi



Correct answer

ghi

1.d.

```
int a = 15;  
while(printf("%d", a--) > 1);  
printf("%d",a);
```

15141312111098



Correct answer

15141312111098



1.e.

```
unsigned char i = -2;
while (i != 2) {
    printf("%u,", i++);
}
printf("%d", i-4);
```

254,255,0,1,-2



Correct answer

254,255,0,1,-2

1.f.

```
double k = 2;
while(k++ < 4.5);
{
    printf("%lf", k);
}
```

6.000000

Correct answers

6.000000

6

Problem 2

The following (incomplete) code takes as input an 8-digit long positive integer 'n' containing only the digits 1-9, and another positive value 'r'. It then rotates 'n' by 'r' places. For example, if n = 12345678, r = 5, then the output is 45678123.



Complete the code so that it does the required task correctly.

```
1 int main(void){
2
3     int n;
4     int r;
5
6     scanf("%d", &n);
7     scanf("%d", &r);
8
9     _____
10
11     int div = _____;
12
13     while(r>0){
14         div = _____
15         r = r-1;
16     }
17
18     n = _____;
19
20     printf("%d", n);
21 }
```

Line 9

```
r %= 8;
```

Correct answers

```
r = r%8;
```

```
r %= 8;
```

```
r=r%8
```

```
r%=8
```



Line 11

1

Correct answer

1

Line 14

div*10;



Correct answers

div*10;

div * 10;

Line 18

n/div+(n%div)*(100000000/div)

Correct answer

(n%div)*(100000000/div) + n/div

Problem 3

Choose if the following claims are true or false.



3.a. The code below will output: Hello World

```
if(0 && 1);  
    printf("Hello World");
```

☒ True



☐ False

☐ Other:

Correct answer

☒ True

3.b. '<<' is the operator for "less than" in C Programming Language.

☐ True

☒ False



☐ Other:

Correct answer

☒ False



3.c. A C program that prints three lines of output must contain three printf statements.

- ☐ True
- ☐ Email addressFalse

Correct answer

- ☒ Email addressFalse

3.d. The following line of code will declare an integer array of length 6.

```
int n{} = { 2, 4, 12, 5, 45, 5 };
```

- ☐ True
- ☒ False



Correct answer

- ☒ False



3.e. The following c program compiles

```
void main()  
{  
}
```

☒ True



☐ False

Correct answer

☒ True

This content is neither created nor endorsed by Google. - [Terms of Service](#) - [Privacy Policy](#)

Google Forms

