ESC101 - QUIZ 1 Session 1

Total points (2)



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. Autosubmission 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.

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	0 of 0 points
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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){
     int n;
     int r;
    scanf("%d", &n);
     scanf("%d", &r);
10
     int div = _____;
11
12
     while(r>0){
13
        div = ____
14
        r = r-1;
15
16
17
18
19
     printf("%d", n);
20
```

Line 9

r %= 8;

Correct answers

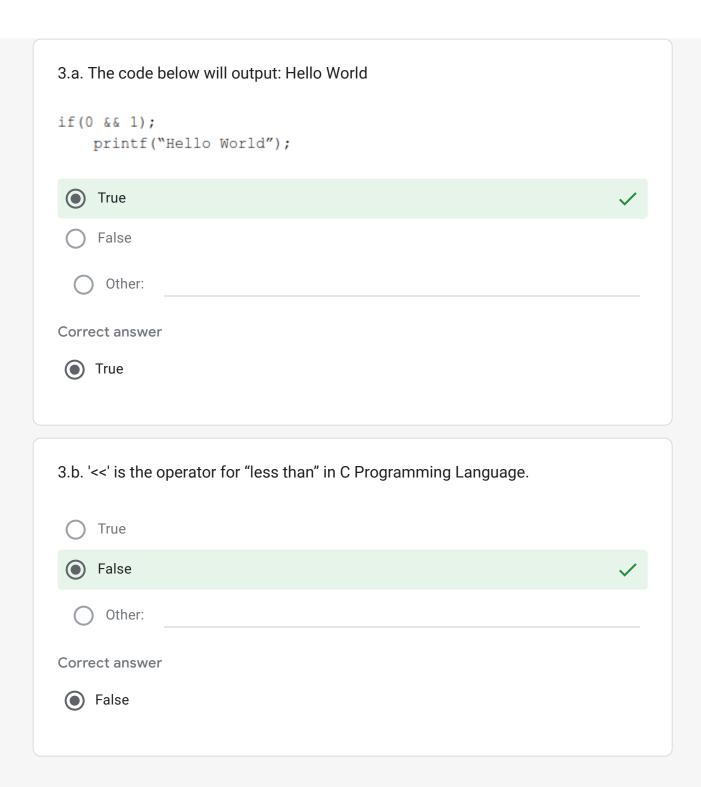
```
r = r\%8;
```

r %= 8;

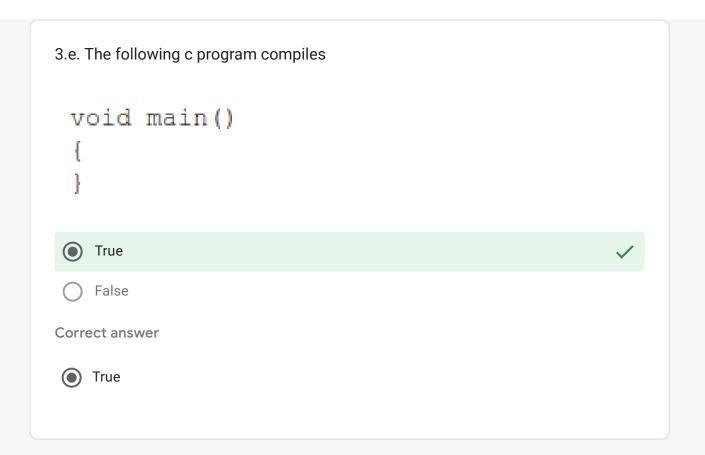
r=r%8

r%=8

Line 11 1 Correct answer 1 Line 14 div*10; Correct answers div*10; div * 10; Line 18 n/div+(n%div)*(10000000/div) Correct answer (n%div)*(100000000/div) + n/divProblem 3 Choose if the following claims are true or 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	



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