ESC101 - QUIZ 2 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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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 lo	op, say Error. If the output is a
parbage value, say GBG. If the output is in multiple lines, use # for the	new line character. ex: if the output
s:	
z .e, each character in a different line, you should answer: x#y#z).	

```
int (*array_1)[5];
int array_2[5];
int *array_3[5];
printf("%d\n",sizeof(array_1));
printf("%d\n",sizeof(array_2));
printf("%d\n",sizeof(array_3));
8#20#40
```

```
/ 1.c.

int (*array_1)[5];
int array_2[5];
int *array_3[5];
printf("%d\n",sizeof(array_1[0]));
printf("%d\n",sizeof(array_2[0]));
printf("%d\n",sizeof(array_3[0]));
```

```
/ 1.d.

int arr[5] = {1,2,3,4,5};
arr++;
printf("%d\n",arr[0]);

Error
```

```
int num = 10;
int *p = NULL;
*p = num+1;
printf("%d",*p);
Error
```

```
/ 1.f.

int arr[5] = {1,2,-4,5,0};
printf("%ld",(arr+4)-arr+arr[4]-arr[0]);

3
//
```

```
/ 1.g

int a[] = {10,20,30,40,50};
int b = a; int c = a+1;
printf("%d %d", c-b, (a+1)-(a));

41

//
```

Problem 2

The following code aims to calculate e^x for any non-negative integer x. Complete the code by filling in the blanks. The final result is to be printed upto two digits after the decimal place.

Fill (1),(2),(3),(4) blanks to complete the code so that it does the required task correctly.

#include<stdio.h>
int main()
{

float e = 2.718282, s = _____(1)____;
int x;
scanf("%d", &x);

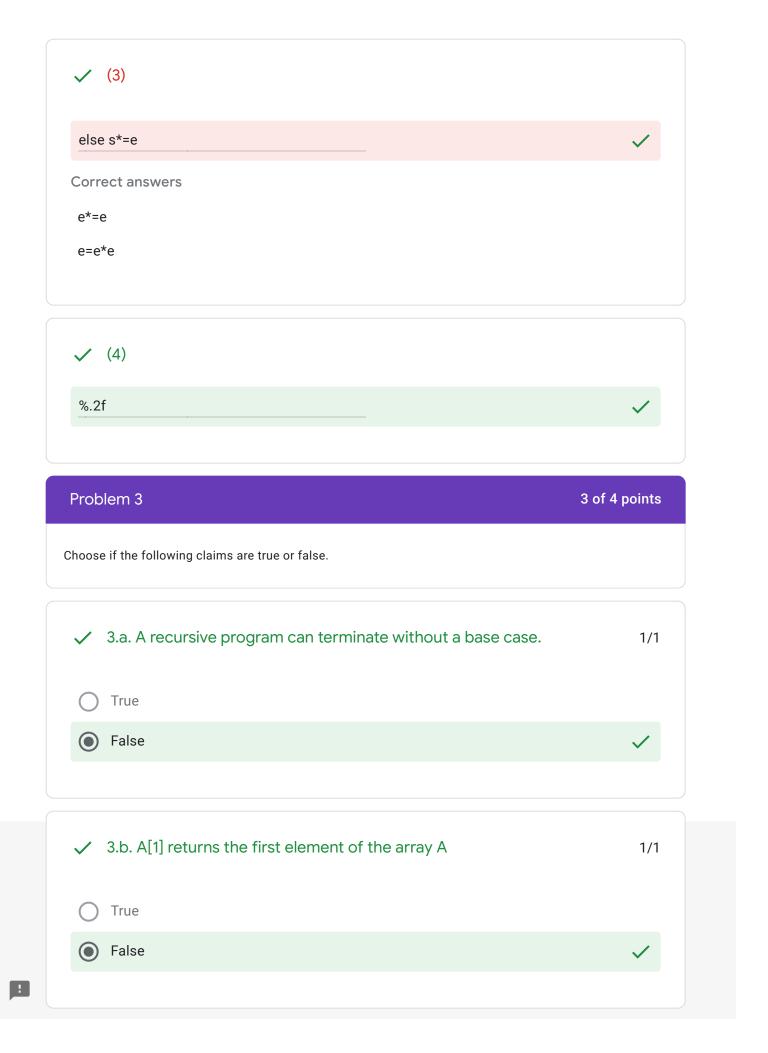
for (; x; _____(2)____)
{
 if (x%2) s*=e;
 _____(3)____;
}

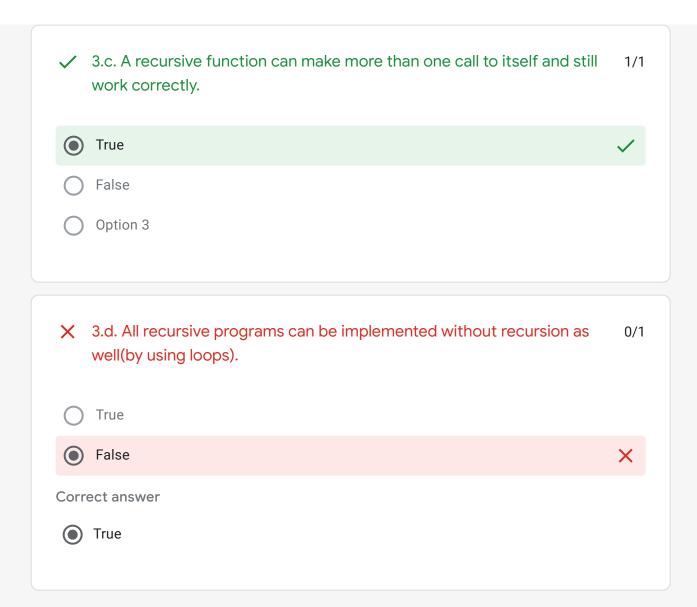
printf("_____(4)____", s);

return 0;
}



```
x--
Correct answers
x/=2
x=x/2
```





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