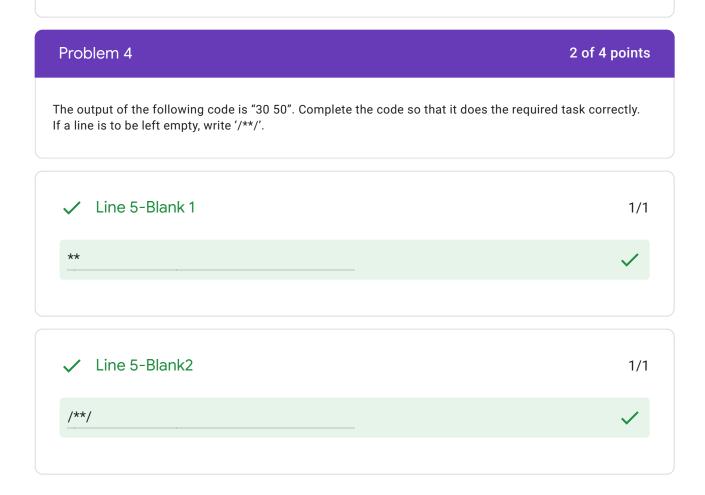
ESC101 - QUIZ 2 Session 2

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. 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.



Fill the blanks in the code.

```
1 #include <stdio.h>
3 void f(int *a, int ***c){
            ____c = ____a;
6 }
8 int main(void) {
     int a[] = {10, 20, 30, 40, 50, 60, 70};
10
     char *b;
11
     int **c = &b;
12
13
     f(a, &c);
14
15
     // No access to array a beyond this comment
16
17
     printf("%d %d", *( b______ ), *( _____ b + 2) )
18
     return 0;
19
20 }
```

X Line 18-Blank20 0/1

+2 ×

Correct answers

```
2 + (int*)
```

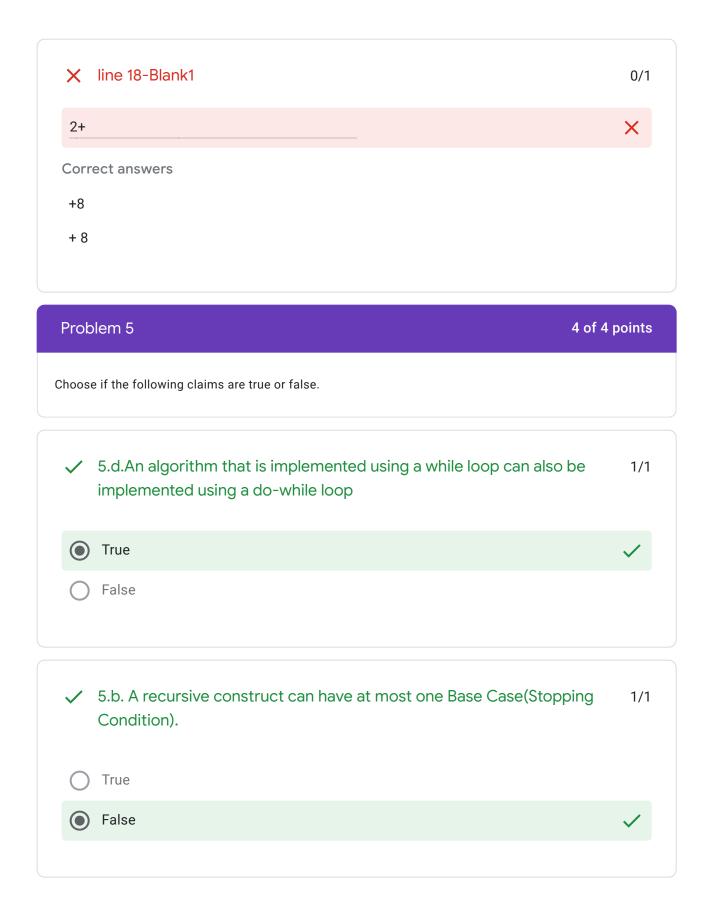
2+ (int*)

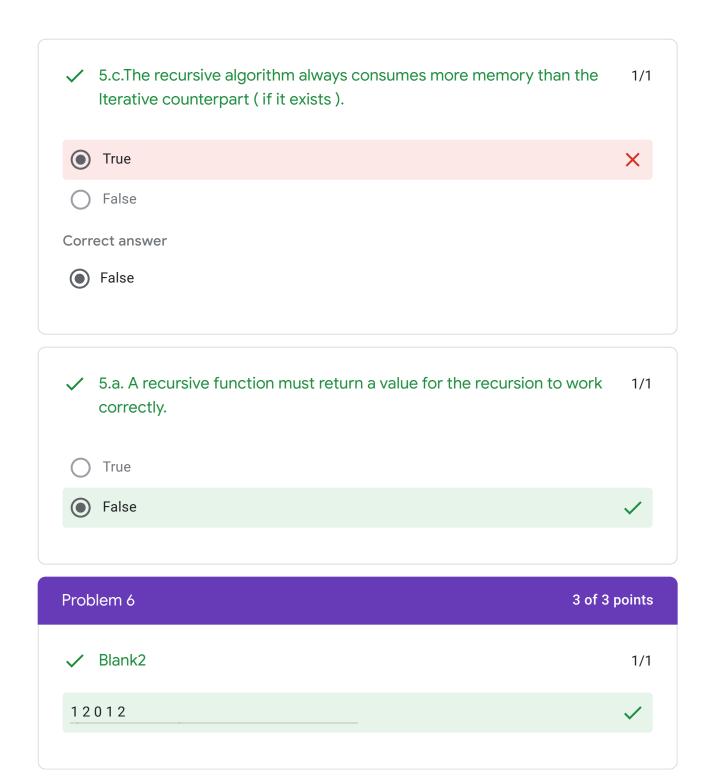
2 +(int*)

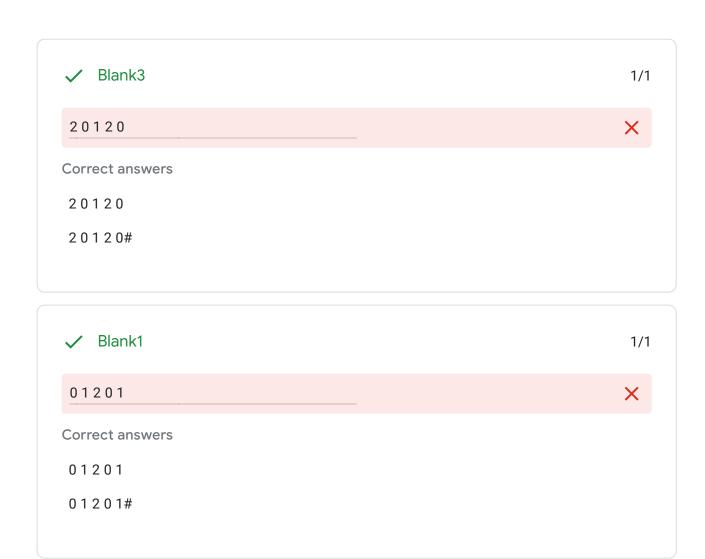
14 +

2 + (int*)

int *)((double*)







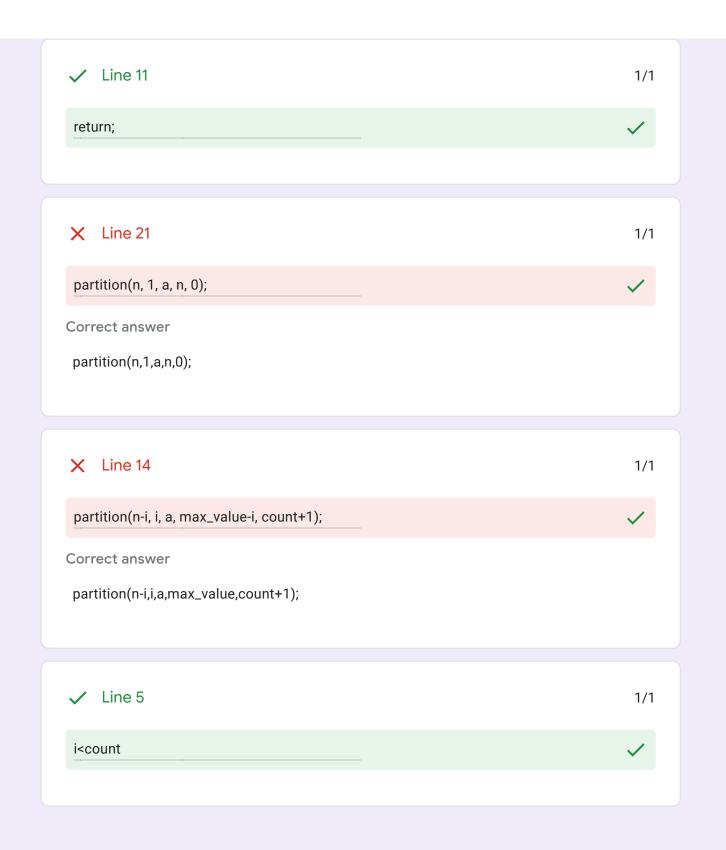
Fill the output blanks of the following C program.

```
int a(int x);
int b(int y);
int c(int z);
int a(int x){
  if(x<1) return 0;
  return b(x-1);
}
int b(int y){
  if(y<1) return 1;
  return c(y-1);
}
int c(int z){
  if(z<1) return 2;
  return a(z-1);
}
int main(){
  for(int i=0;i<5;i+=1) printf("%d ", a(i)); printf("\n");
  for(int i=0;i<5;i+=1) printf("%d ", b(i)); printf("\n");
  for(int i=0;i<5;i+=1) printf("%d ", c(i));
}
Ans:
```

Problem 7 4 of 4 points

We are writing a code that, given a positive integer N, prints out all distinct partitions of N in increasing order. A partition of a positive integer n is a way of expressing n as a sum of positive integers.

```
Example N=4
OUTPUT: 1 1 1 1 1
1 1 2
1 3
2 2
```



Fill in the blanks in the given code so that it outputs the partitions of input n.

```
#include <stdio.h>
 1
 2
 3
     void partition(int n, int min, int a[],int max_value, int count){
         if(n==0){
 4
             for(int i=0;....;i++)
 5
             printf("%d ",a[i]);
 6
             printf("\n");
 7
             return;
 8
 9
10
         else if(n<0)
11
         for(int i=min;i<max_value;++i){</pre>
12
13
             a[count] = i;
14
             . . . . . . . . . . . . . . . . . . .
15
         }
16
     int main(){
17
18
         int n;
         scanf("%d",&n);
19
        int a[n];
20
21
         22
        return 0;
23
24
```

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