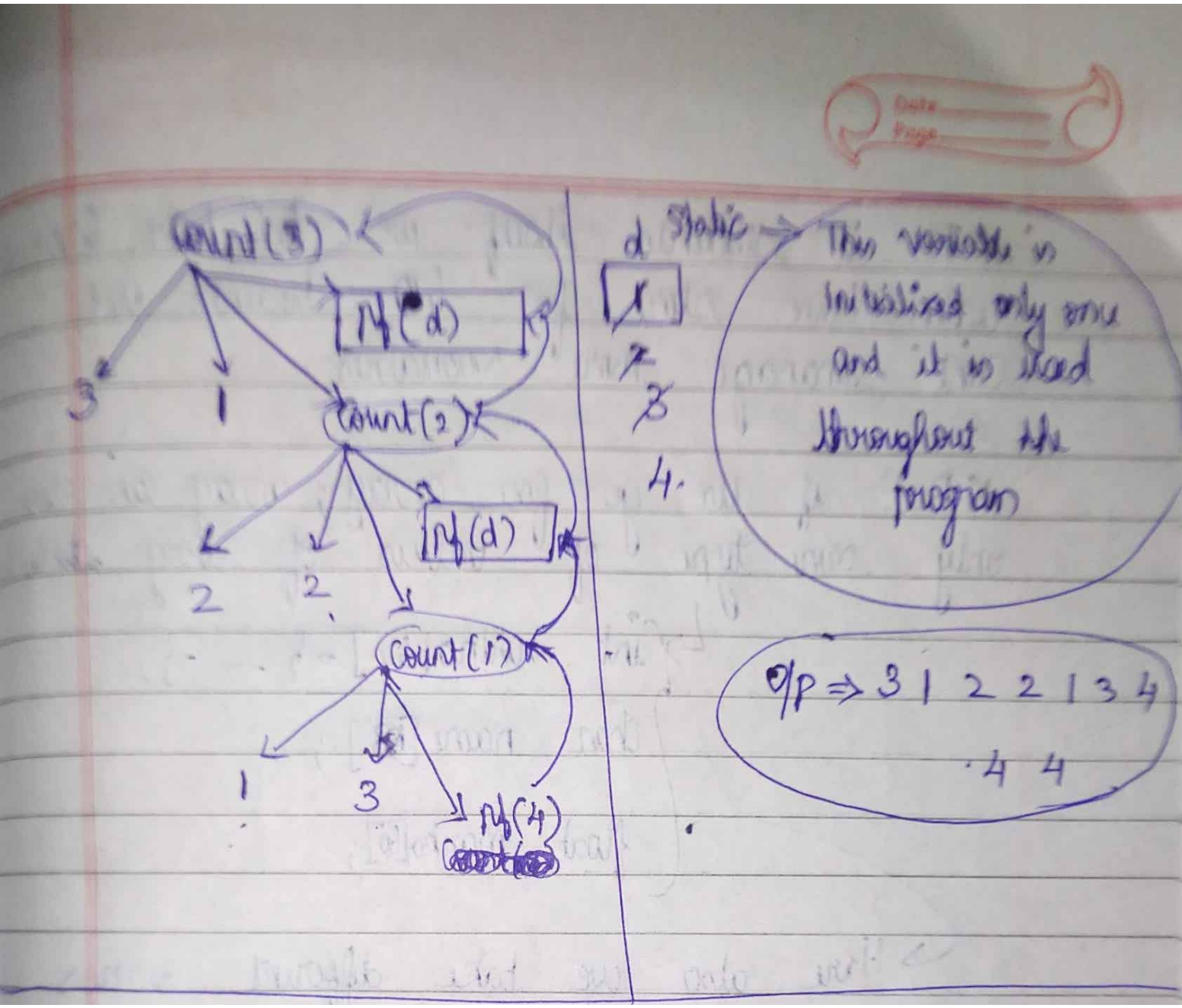
(108) Recursion Solved Problem (Gate 2016)

```
void count(int n)
{
  static int d=1;
  printf("%d",n);
  printf("%d",d);
  d++;
  if(n>1)
    count(n-1);
  printf("%d",d);
}
void main()
{
  count(3);
}
```


count(3)
fn(d)
3
1
count(2)
fn(d)
2
2
count(1)
1
3
fn(4)
d
static
This variable is initialized only once and it is used throughout the program
2
3
4
o/p ⇒ 3 1 2 2 1 3 4
4 4

```c
#include <stdio.h>
#include <stdlib.h>
/** 3-RECURSION PROBLEM **/

void count(int n)
{
 static int d=1;
 printf("%d",n);
 printf("%d",d);
 d++;
 if(n>1)
  count(n-1);
 printf("%d",d);
}
int main()
{
 count(3);
}
```

```
"D:\1. C C++NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 7_JENNYS LECTU
312213444
Process returned 0 (0x0)   execution time : 0.064 s
Press any key to continue.
```