

Matthew Strozyk

Assignment 3 | CSE305

1.

```
int fibo(){
    static int first;
    static int sec;
    int temp;

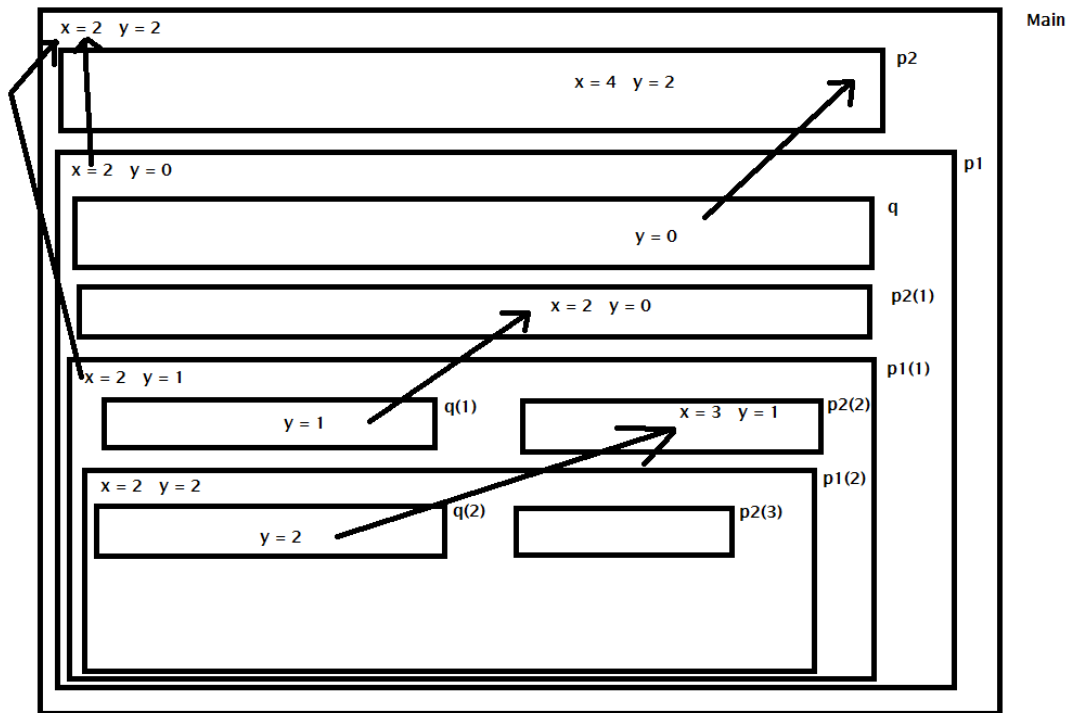
    if(first == 0){
        first = 1;
        return first;
    }

    temp = sec;
    sec = first;
    first = temp + first;

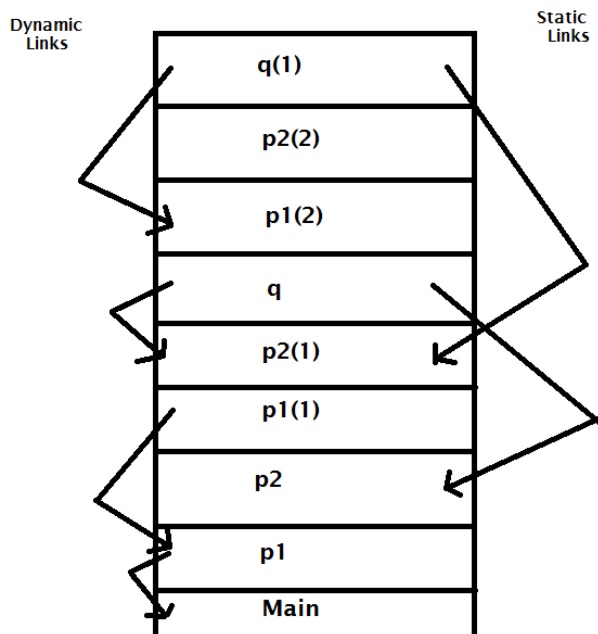
    return first;
}
```

2. Sequence printed: 3 2 4

Scope Diagram:



Stack Diagram:



3a.

Enqueue:

Iteration	# Cons Allocated
1	2
2	2
3	2
4	2

Append:

Iteration	# Cons Allocated
1	3
2	5
3	7
4	9

3b.

For enqueue, there are 7 garbage cells that cannot be accessed from the stack frame of main().
For append, there are 16 garbage cells that cannot be accessed from the stack frame of main().