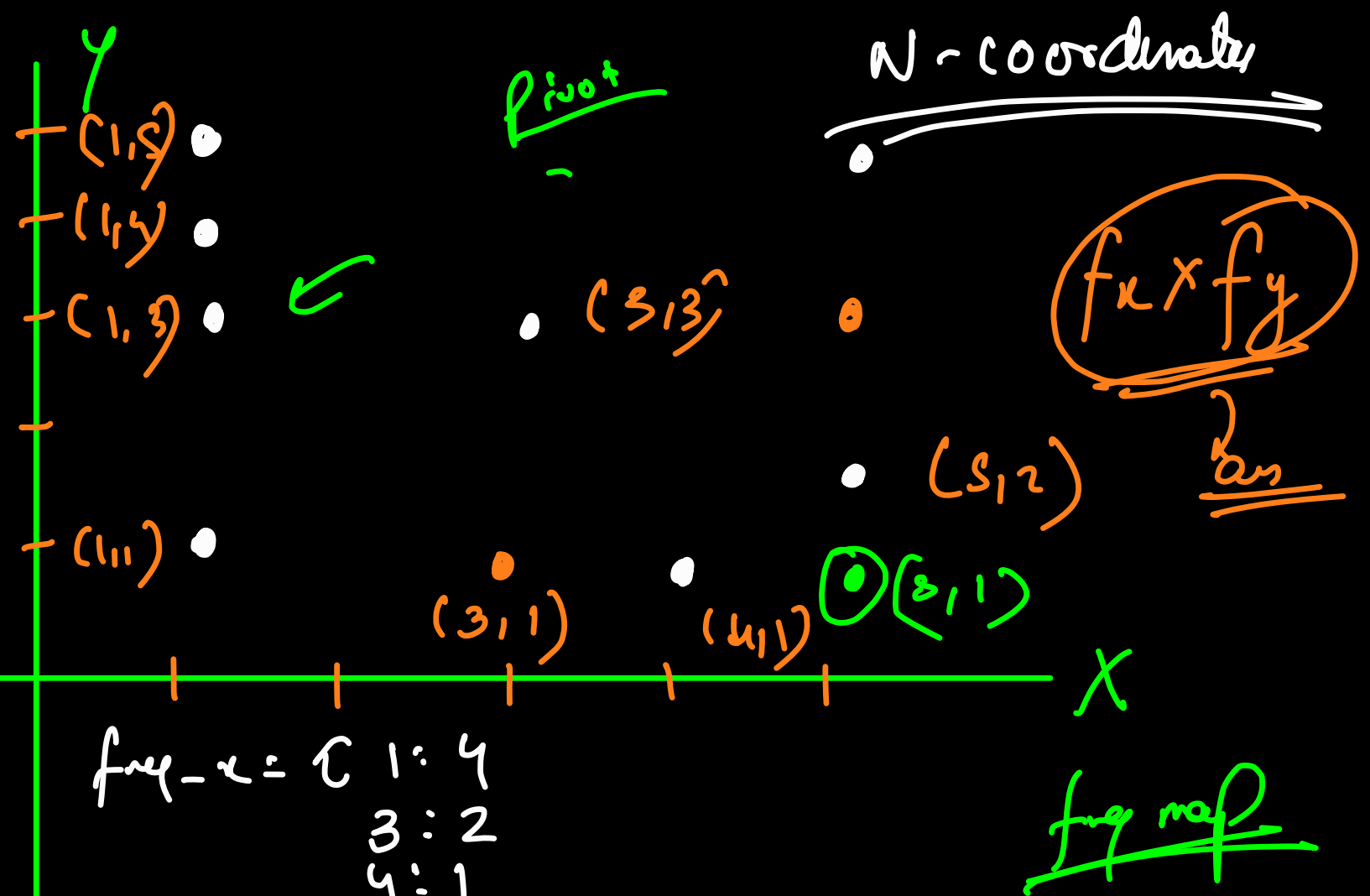


Q
Count

all points have same
x coordinate can help
in forming one side

3×2^2 \rightarrow 6



How many right angled
triangles can form
such that the base or
perpendicular of the triangle
is parallel to x or y axis
and the coordinates given should
be used

freq-x = {
freq-y = {
}

key val
↓ ↓
n-ur cut

```

        process (arr) {
            freq-x = h3
            freq-y = h3
            ans = 0
            for (i = 0; i < arr.size(); i++)
                freq-x [arr[i][0]]++
                freq-y [arr[i][1]]++
            }
            for (i = 0; i < arr.length; i++)
                ans += (freq-x [arr[i][0]] - 1) * (freq-y [arr[i][1]] - 1)
            }
            return ans;
        }
    }

```

[0,0], [0,1]

O(m) O(n)

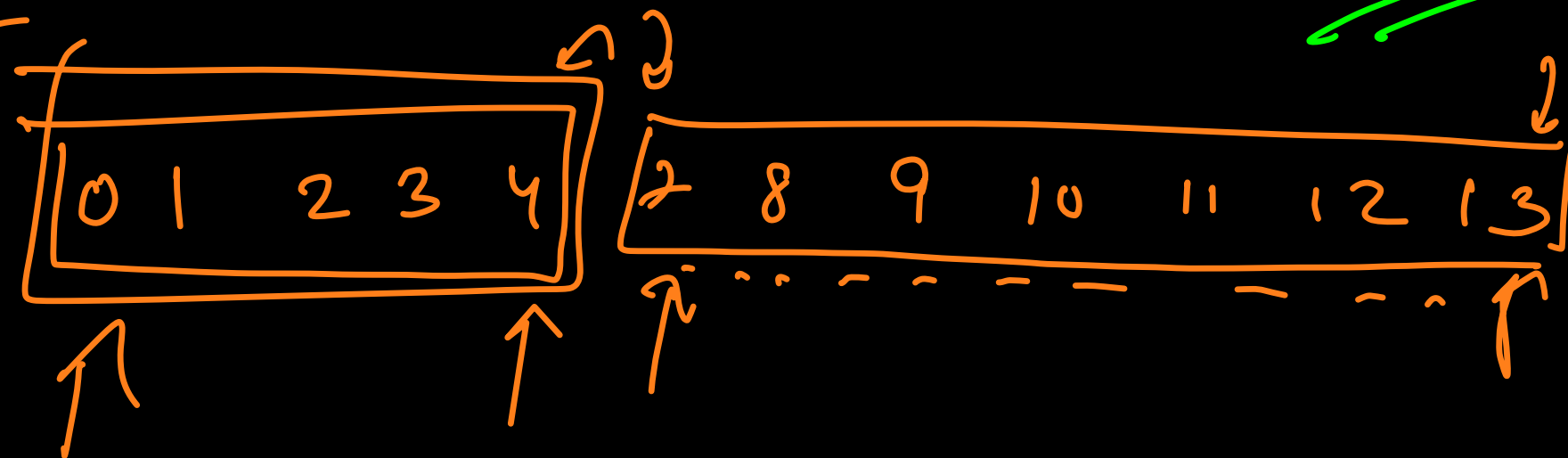
[9, 1, 3, 4, 8, 2, 7, 12, 13, 10, 0, 11]

Brute
Force

Subsequences 2exp

↓
Set

→ $O(\log n)$



el, el
unique
sort

twice

magic
map

[9, 1, 3, 4, 8, 2, 7, 12, 13, 10, 0, 11]

{ 9: 4
1: 1
3: 3
4: 4
:
11: 1 }

(x+1) is in the
array or not

x

(x-1) should not be present
→ somehow we know if x is
starting point of any seq or not.

any square can be identified by any 2 of the following

3 properties

(every element is touched)
const no. of lines

10 11 12

10
12

start
end
length

3
8

3 4 5 6 7

G(n)

while (mp[x+i])

i++;

ans = max(ans, i);

