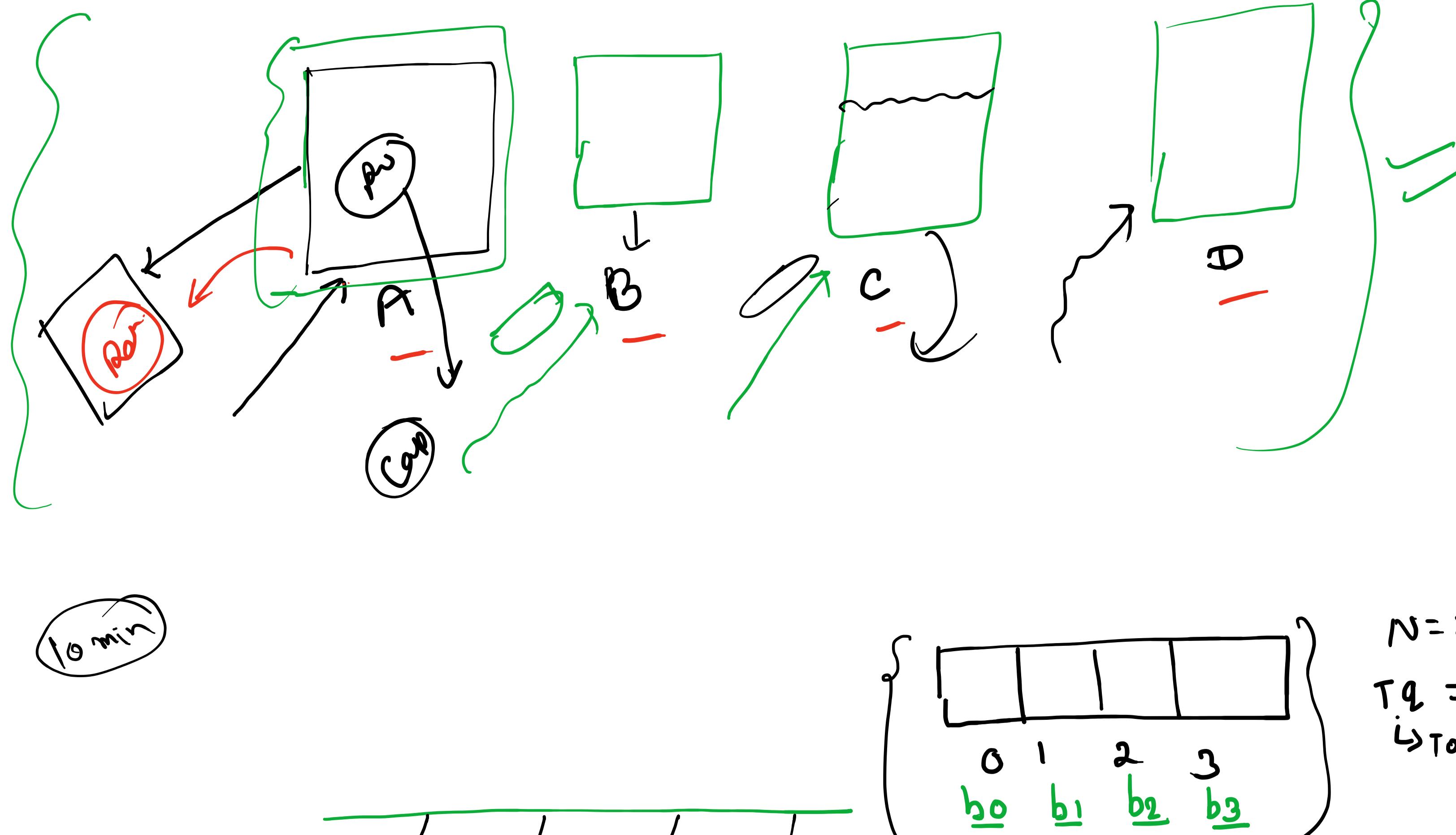
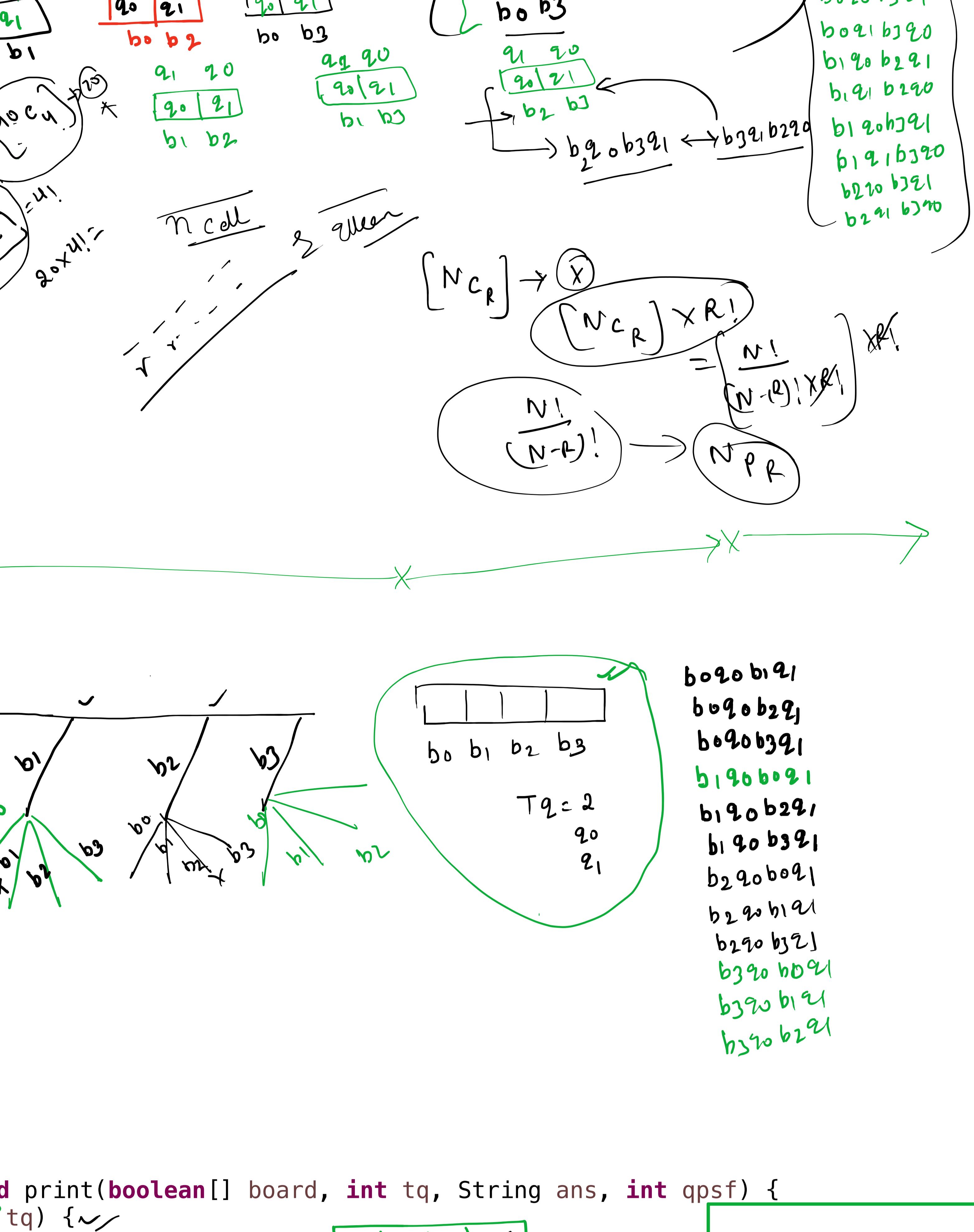


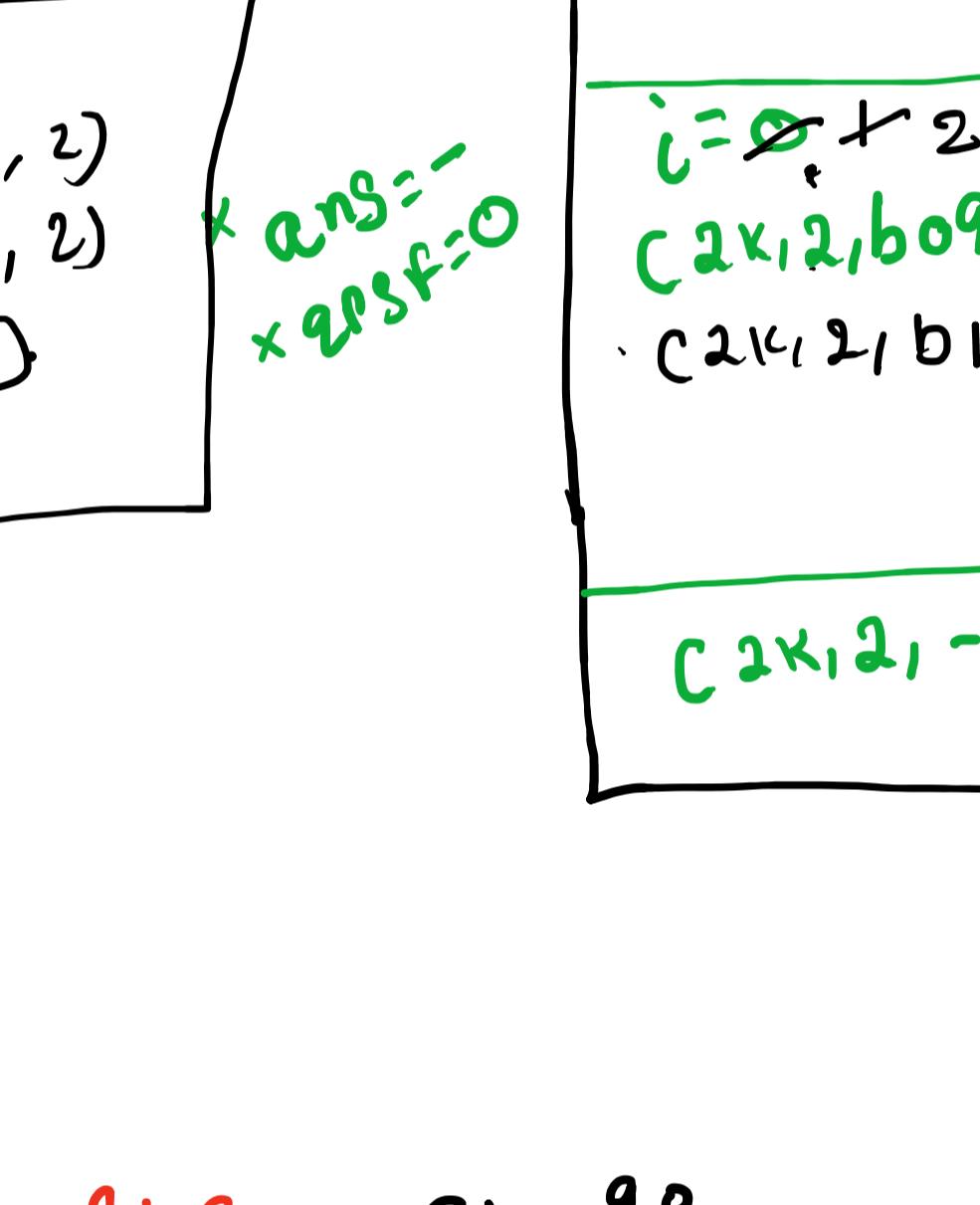
① How to print?  $\rightarrow$  Backtracking



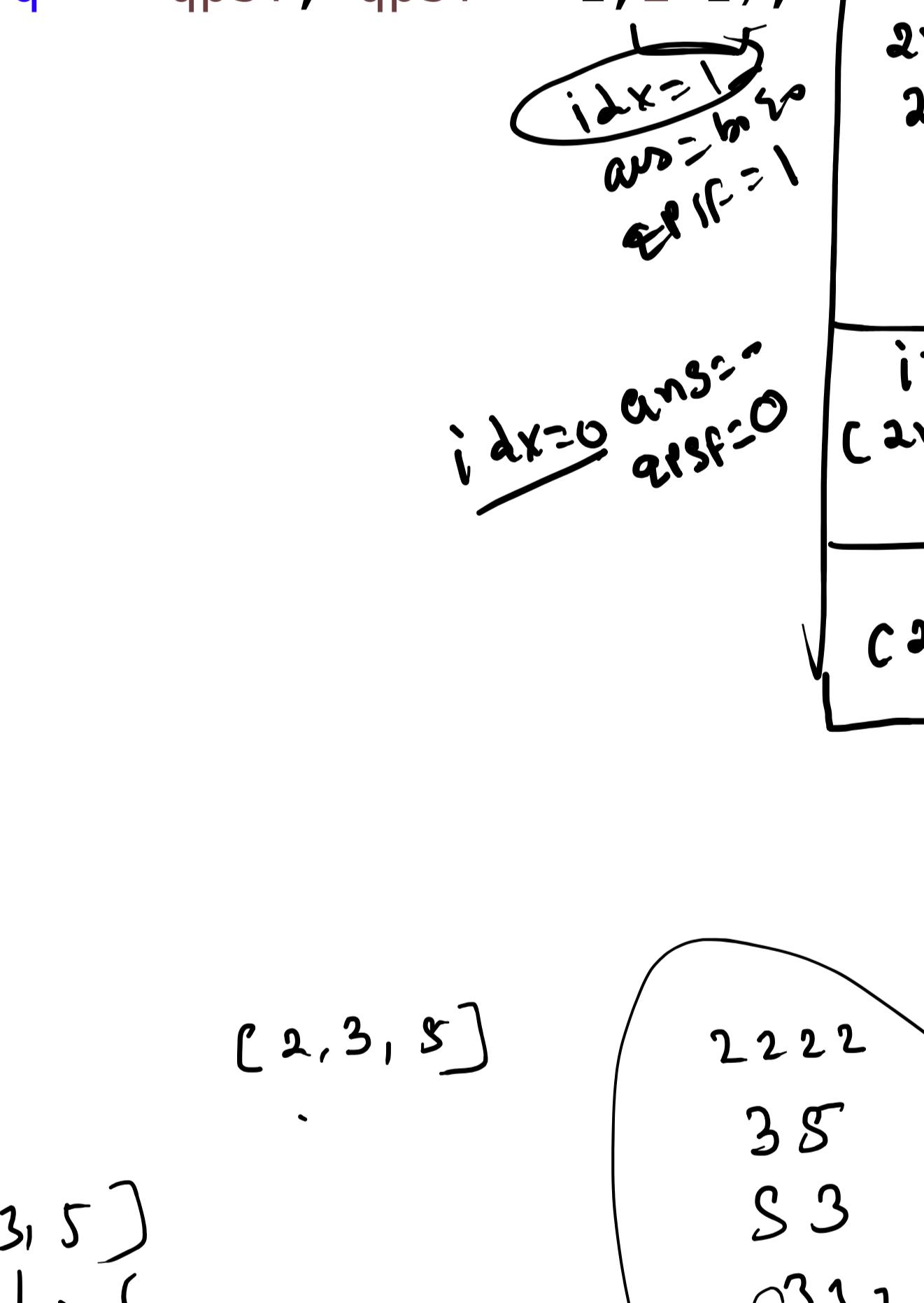
10 min



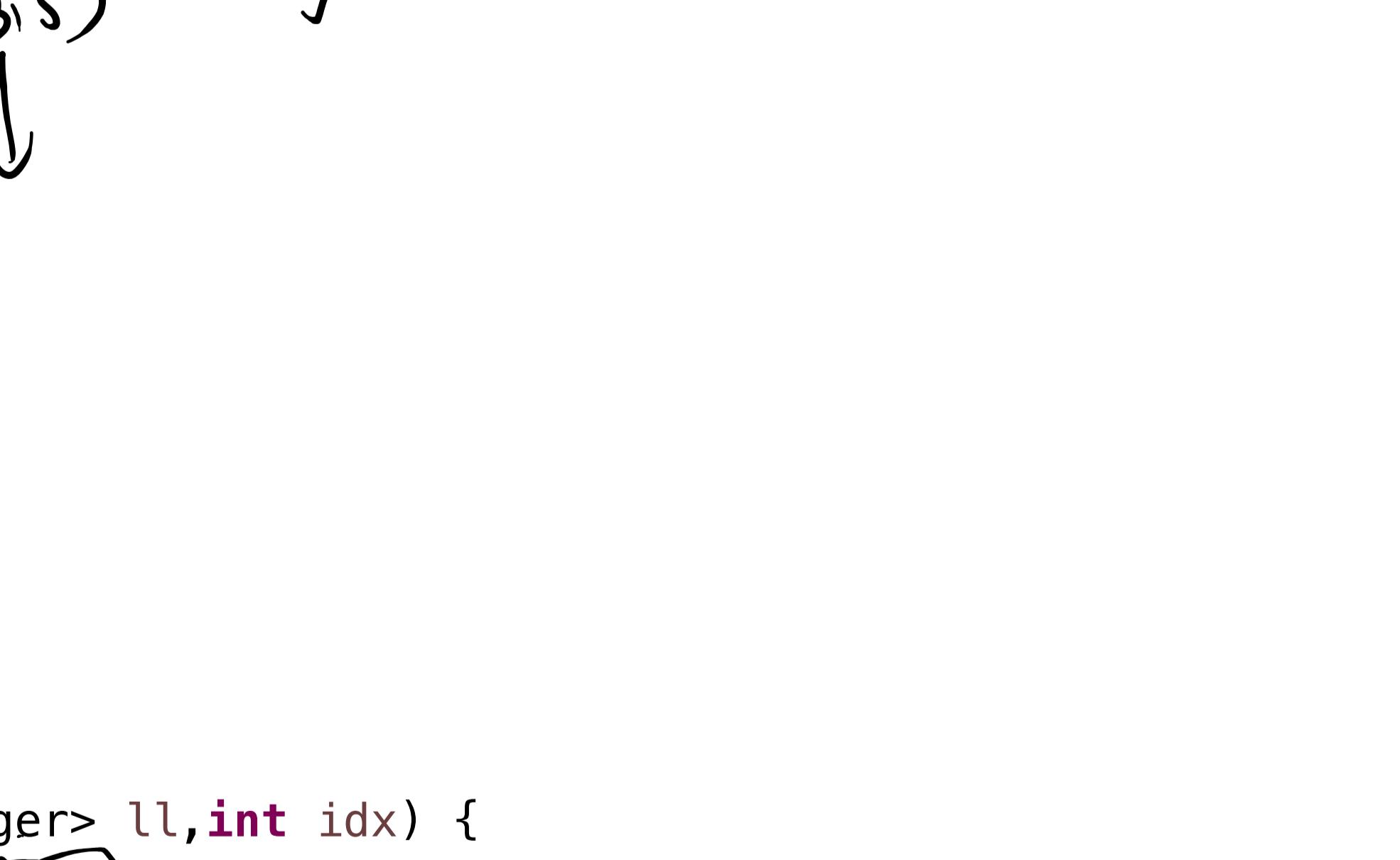
```
public static void print(boolean[] board, int tq, String ans, int qpsf) {
    if (qpsf == tq) {
        System.out.println(ans);
        return;
    }
    for (int i = 0; i < board.length; i++) {
        if (board[i] == false) {
            board[i] = true; // queen placed hogya
            print(board, tq, ans + "b" + i + "q" + qpsf, qpsf + 1);
            board[i] = false; // UNDO
        }
    }
}
```



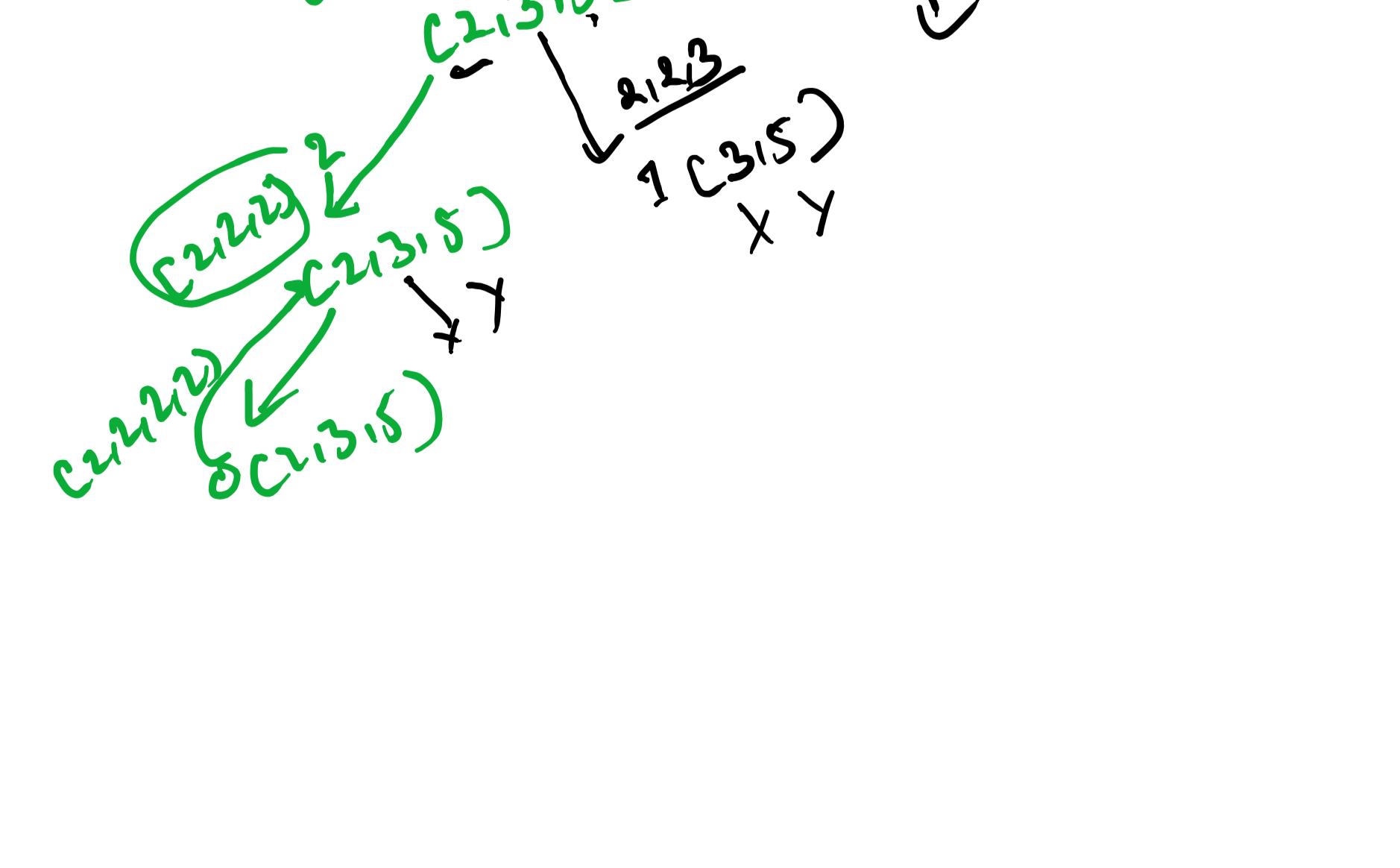
```
public static void print(boolean[] board, int tq, String ans, int qpsf) {
    if (qpsf == tq) {
        System.out.println(ans);
        return;
    }
    for (int i = 0; i < board.length; i++) {
        if (board[i] == false) {
            board[i] = true; // queen placed hogya
            print(board, tq, ans + "b" + i + "q" + qpsf, qpsf + 1);
            board[i] = false; // UNDO
        }
    }
}
```



```
public static void print(boolean[] board, int tq, String ans, int qpsf, int idx) {
    if (qpsf == tq) {
        System.out.println(ans);
        return;
    }
    for (int i = idx; i < board.length; i++) {
        if (board[i] == false) {
            board[i] = true; // queen placed hogya
            print(board, tq, ans + "b" + i + "q" + qpsf, qpsf + 1, i + 1);
            board[i] = false; // UNDO
        }
    }
}
```



```
public static void print(int[] coin, int amount, List<Integer> ll, int idx) {
    if (amount == 0) {
        System.out.println(ll);
        return;
    }
    for (int i = idx; i < coin.length; i++) {
        if (amount >= coin[i]) {
            ll.add(coin[i]);
            print(coin, amount - coin[i], ll, i);
            ll.remove(ll.size() - 1);
        }
    }
}
```



```
public static void print(int[] coin, int amount, List<Integer> ll, int idx, List<List<Integer>> ans) {
    if (amount == 0) {
        System.out.println(ll);
        ans.add(ll);
        return;
    }
    for (int i = idx; i < coin.length; i++) {
        if (amount >= coin[i]) {
            ll.add(coin[i]);
            print(coin, amount - coin[i], ll, i, ans);
            ll.remove(ll.size() - 1);
        }
    }
}
```

