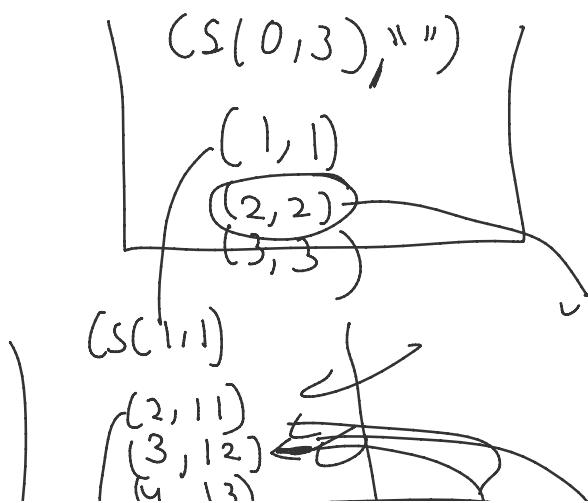
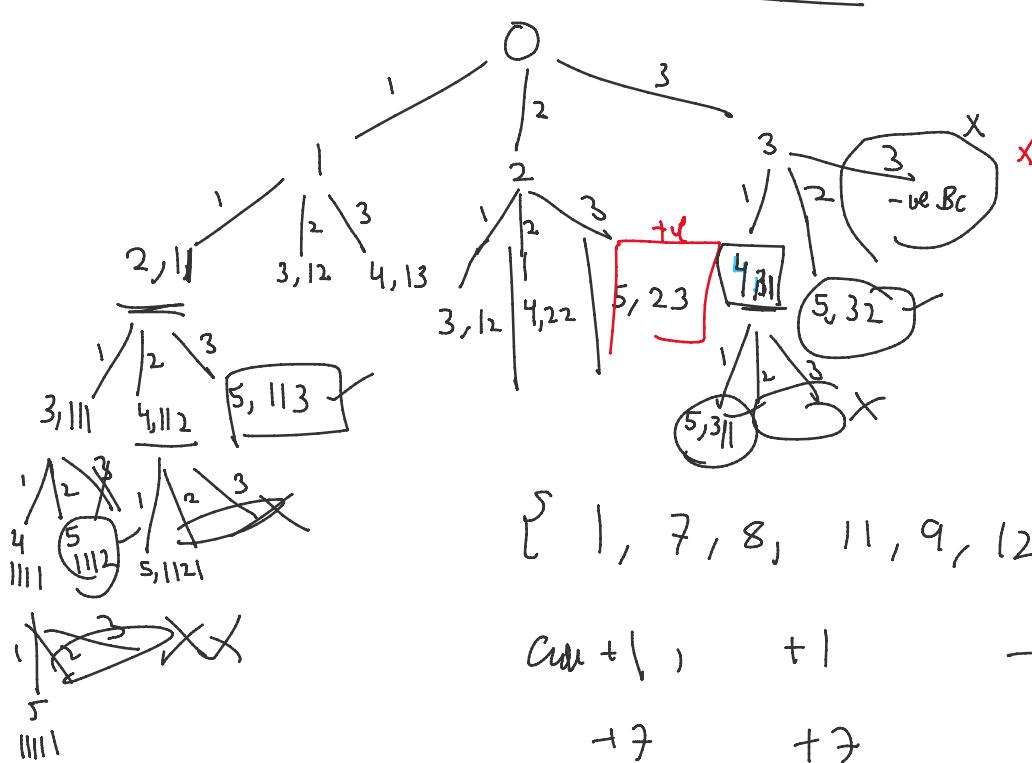
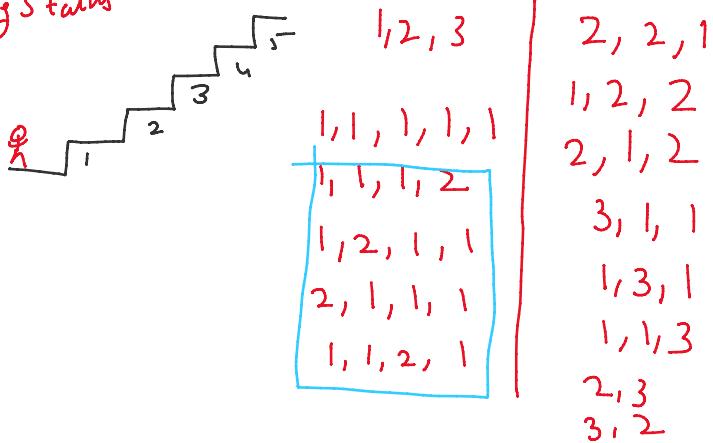


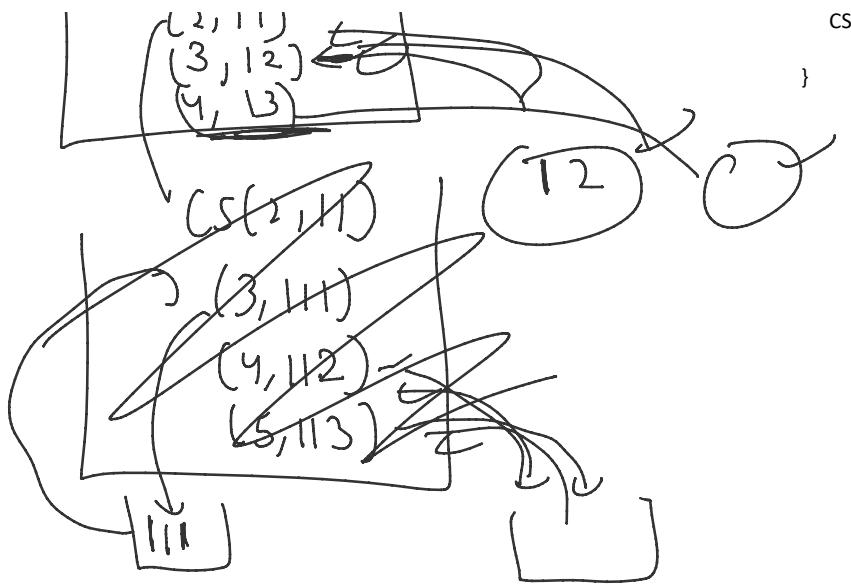
Climbing stairs



```

public static void main(String[] args) {
    CStairs(0, "");
}
public static void CStairs(int curr, int dest, String path) {
    if(curr==dest) { // +ve positive BC
        System.out.println(path);
        return;
    }
    if(curr>dest) { // -ve negative BC
        return;
    }
    CStairs(curr+1, dest, path+"1"); // 1 ki jump
    CStairs(curr+2, dest, path+"2"); // 2 ki jump
    CStairs(curr+3, dest, path+"3"); // 3 ki jump
}

```



CStairs(curr+3, dest, path+3); // 3 ki jump

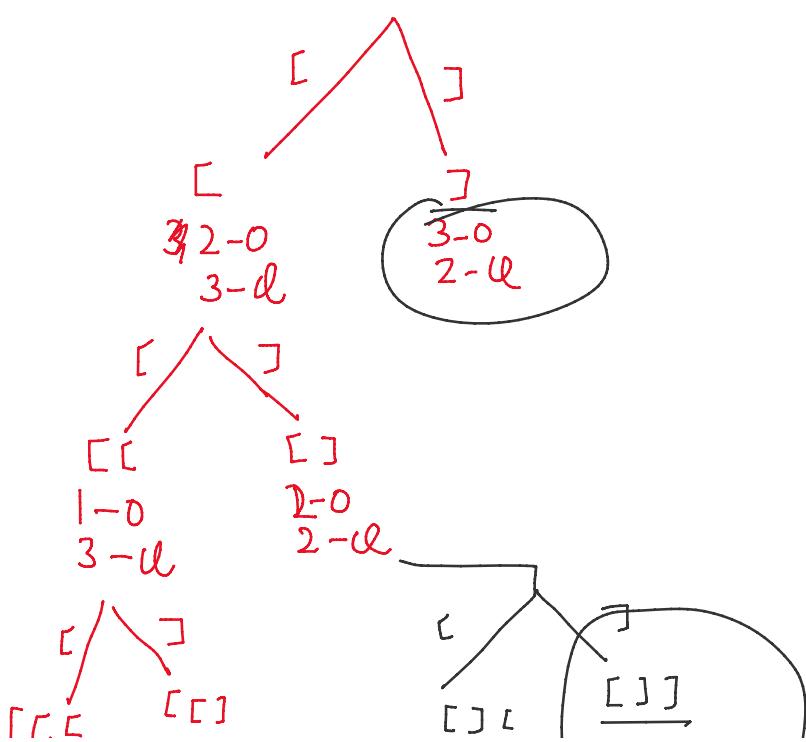
0 —————— 10 1, 2

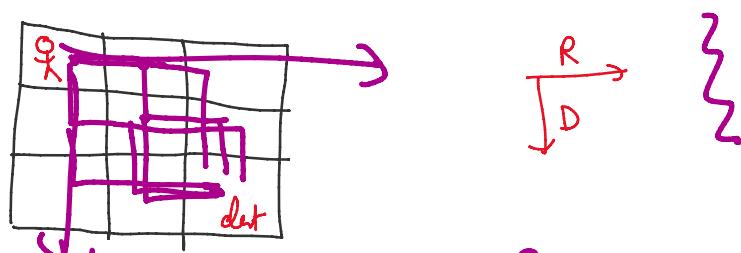
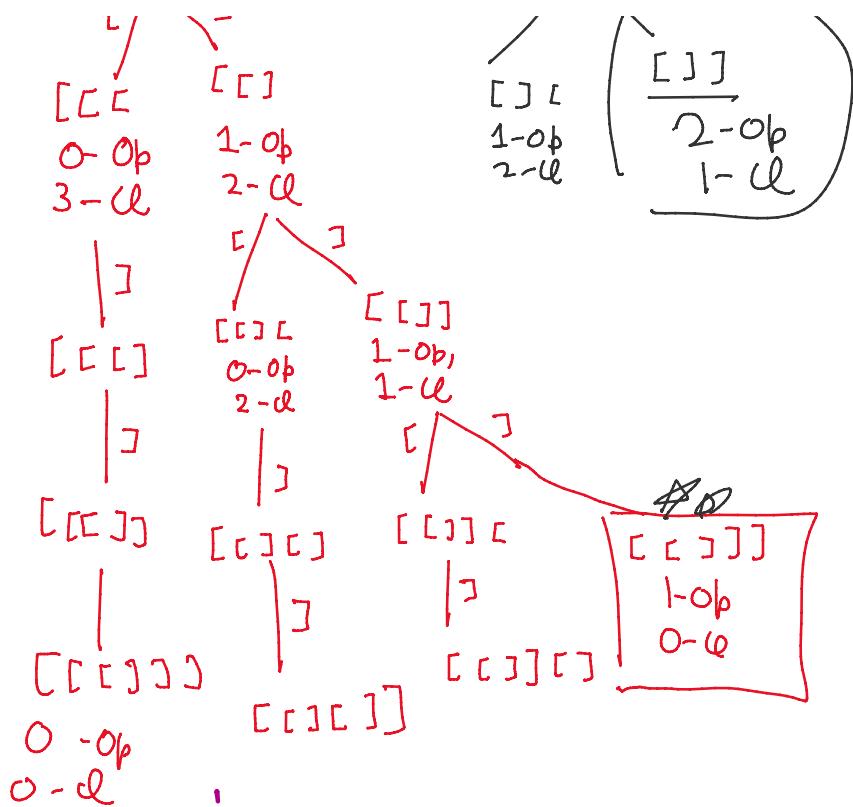
A-

$n = 3$

— — — — —

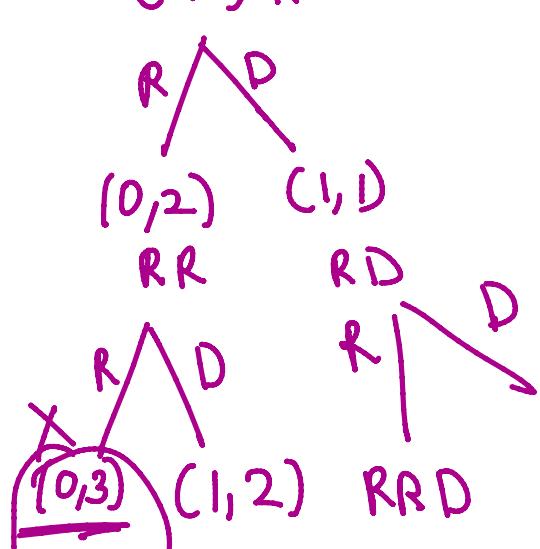
3-0, 3-d



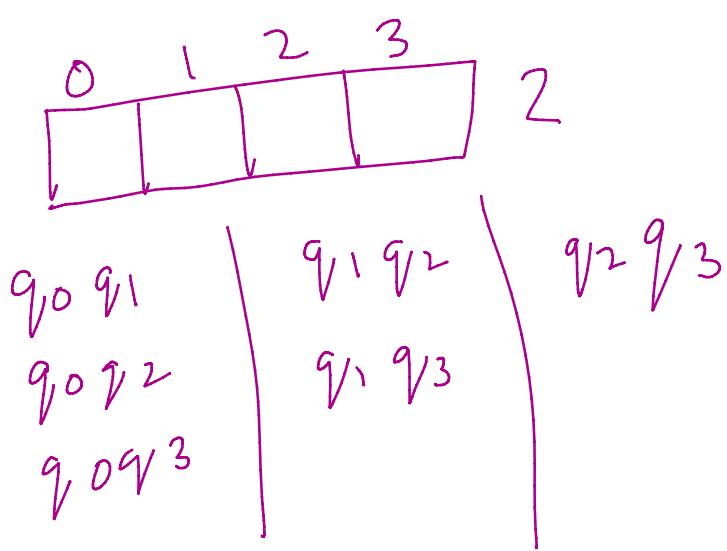
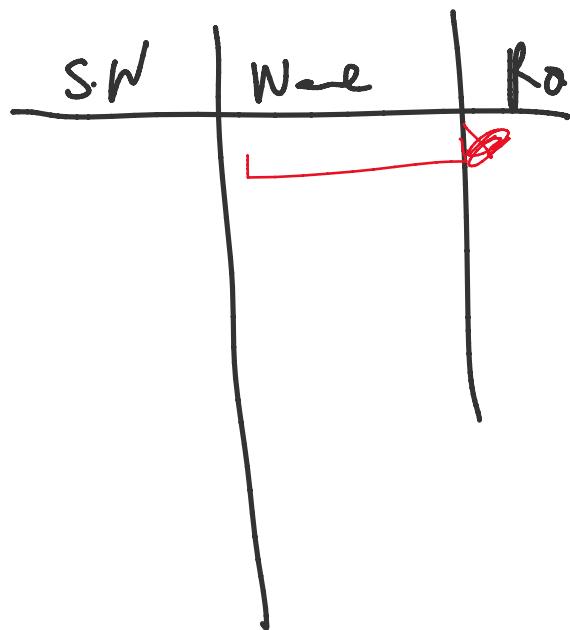
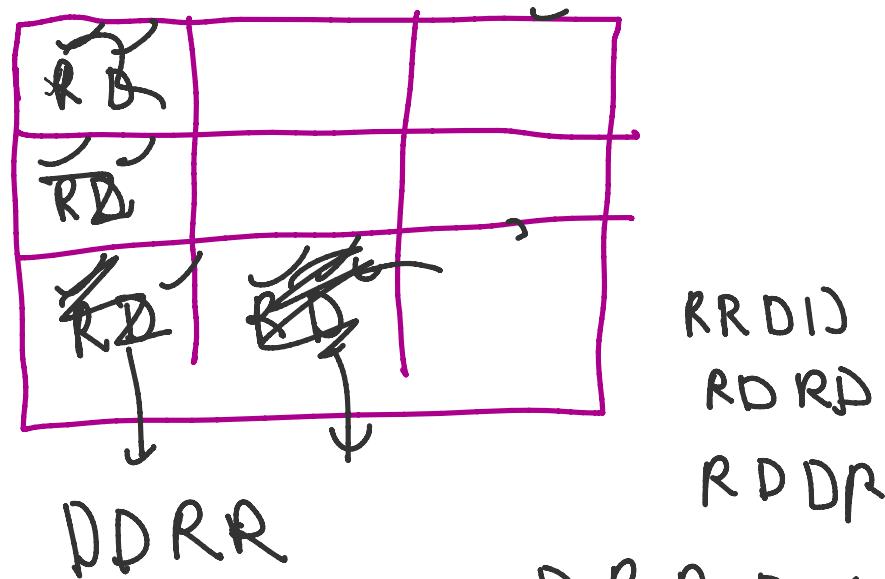


R R D D D
R D R D
R D D R

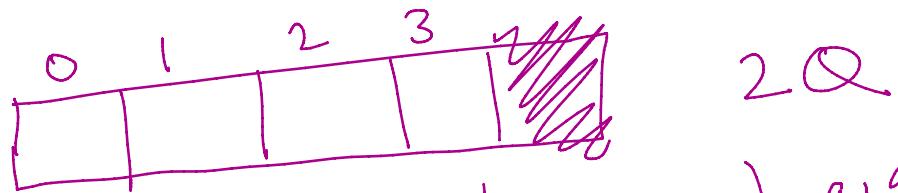
~~D R R R D~~
D R D R
~~D D R R~~



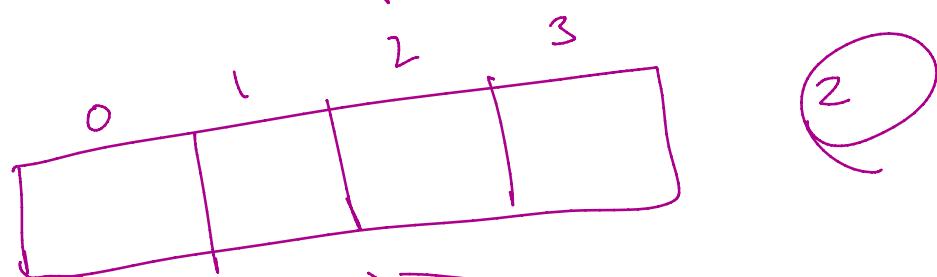
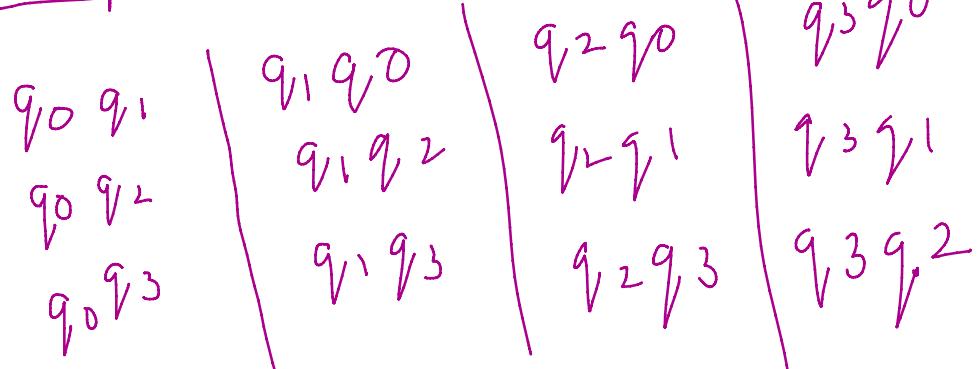
$(0,3)$
 RR
 $(1,2)$
 RRD
 $\begin{matrix} R \\ D \end{matrix}$
 $(1,3)$
 \times
 $(2,2)$



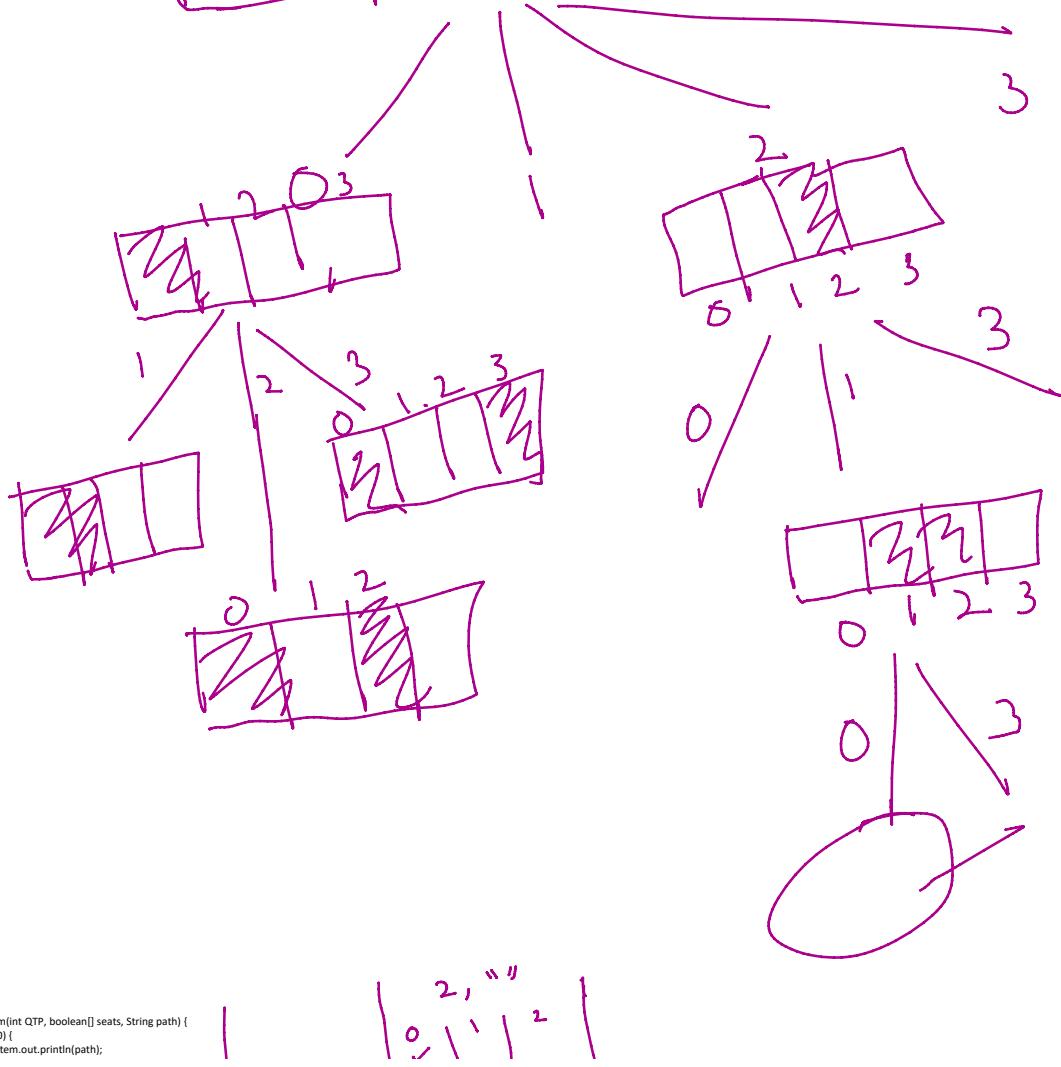
Q



2 Q



(2)



```
public static void Perm(int QTP, boolean[] seats, String path) {
    if(QTP==0) {
        System.out.println(path);
    }
}
```

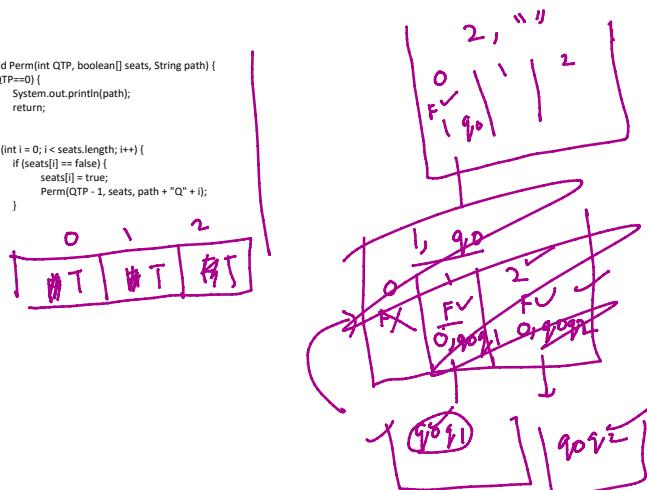
|
|, 0, 1, " ", 1, 2 |

```

public static void Perm(int QTP, boolean[] seats, String path) {
    if(QTP==0)
        System.out.println(path);
    return;
}

for ([int i = 0; i < seats.length; i++) {
    if (seats[i] == false) {
        seats[i] = true;
        Perm(QTP - 1, seats, path + "Q" + i);
    }
}

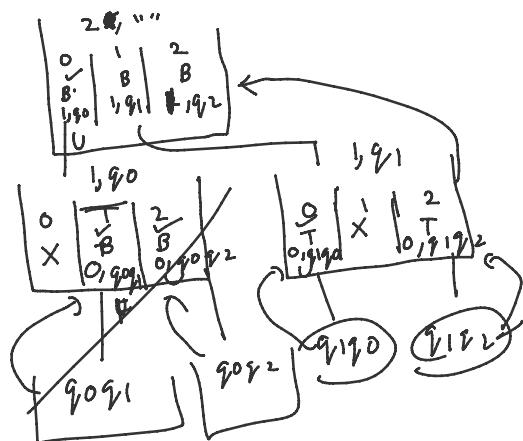
```



```

public static void Perm(int QTP, boolean[] seats, String path) {
    if(QTP == 0) {
        System.out.println(path);
        return;
    }
    for (int i = 0; i < seats.length; i++) {
        if (seats[i] == false) {
            seats[i] = true;
            Perm(QTP - 1, seats, path + "Q" + i);
            seats[i] = false;
        }
    }
}

```



D R R U K U D U

$\Rightarrow \{ \{0,1,0,0\}, \{0,0,0,0\}, \{0,1,0,0\}, \{0,0,1,0\} \}$

$\Rightarrow D R R R D D$

$\Rightarrow D R R D R D$

\Rightarrow

Move Ray

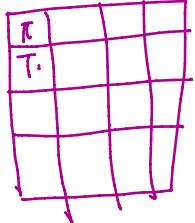
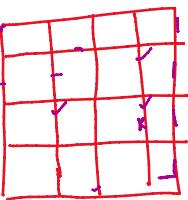
$P \downarrow$

2^{v-BC}

$v - vBC + 1BC$

Blocked path

- $\boxed{\{ \{0,1,0,0\},}$
 - $\{0,\underline{0},0,0\},$
 - $\{0,1,0,0\},$
 - $\{0,0,1,0\} \}$

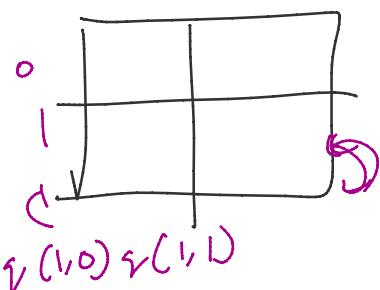
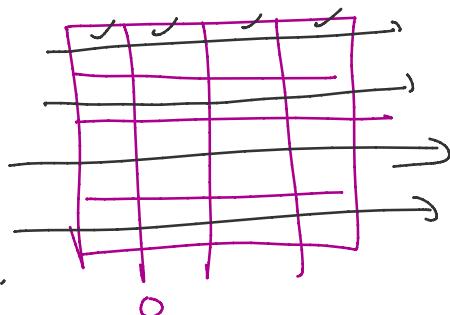


DRRRDD

DR RUR DD DL
DR RD RD



$N - \text{Queens} \parallel \text{Combination}$



(r, c)
 $\nabla(0,0) \nabla(0,1)$
 $\nabla(0,0) \nabla(1,0)$
 $\nabla(0,0) \nabla(1,1)$
 $\nabla(0,1), \nabla(1,0)$
 $\nabla(0,1), \nabla(1,1)$

