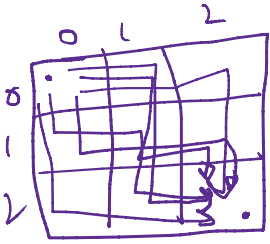


getMaze Path :-

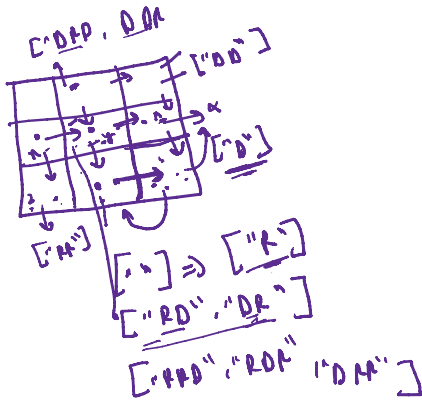
6



["M M V V",  
"V V M M"]

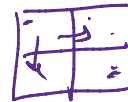
R D

```
AL<String> gMp(sr, sc, dr, dc) {
    if (sr == dr && sc == dc) return List<>();
    res = new AL<>();
    if (sc + 1 <= dc) {
        currList = gMp(sr, sc + 1, dr, dc);
        for (i = 0 to currList.size() - 1) {
            res.add("R" + currList.get(i));
        }
    }
}
```

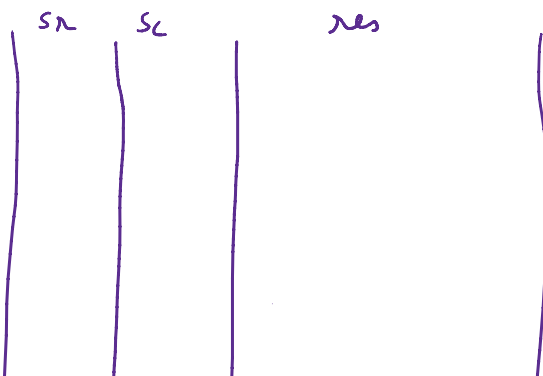


```
if (sr + 1 <= dr) {
    currList = gMp(sr + 1, sc, dr, dc);
    for (i = 0 to currList.size() - 1) {
        res.add("D" + currList.get(i));
    }
}
```

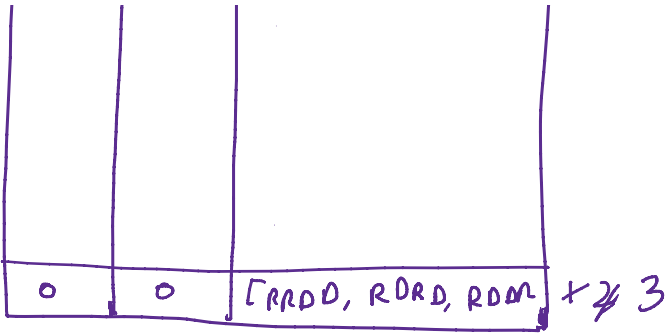
return res;



dc = 1 sr + 1 <= dc



```
public static ArrayList<String> getMazePath(int sr, int sc, int dr, int dc) {
    if (sr == dr && sc == dc) {
        ArrayList<String> res = new ArrayList<>();
        res.add("");
        return res;
    }
    ArrayList<String> res = new ArrayList<>();
    if (sc + 1 <= dc) {
        ArrayList<String> currList = getMazePath(sr, sc + 1, dr, dc);
        for (int i = 0; i < currList.size(); i++) {
            res.add("R" + currList.get(i));
        }
    }
    if (sr + 1 <= dr) {
        ArrayList<String> currList = getMazePath(sr + 1, sc, dr, dc);
        for (int i = 0; i < currList.size(); i++) {
            res.add("D" + currList.get(i));
        }
    }
}
```

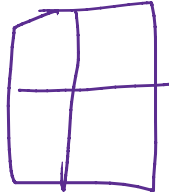
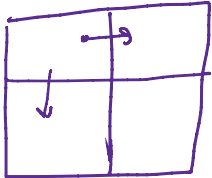
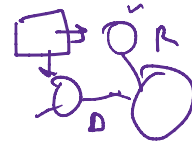


```

3 if (sr + 1 <= dr) {
    ArrayList<String> currList = getMazePath(sr + 1, sc, dr, dc);
    for (int i = 0; i < currList.size(); i++) {
        res.add("D" + currList.get(i));
    }
}
4 return res;
}

```

dr = 2  
dc = 2



$$O(2^n)$$

$$2^k = n$$

$$k = \log_2(n)$$

Hash Set

HashMap / Hash Table

unique

key value set =  $O(1)$

add =  $O(1)$

put = (key, value)

$$= 2n = \underline{O(n)}$$

get = (key)

remove = (key)

K	V
1	A
2	Z
3	C
2	

Student

no. name

3

$$2n = O(n)$$

SS, Krish

0

ans Count frequencies :-

= [ 2, 4, 1, 3, 1, 5, 6, 7, 8, 1 ]

i = 0

mk = ~~2~~ 1

HM	K = Integer	V = Integer
	2	1
	4	1
	1	3
	3	1
	5	1
	6	1
	7	1
	8	1

```
int maxKey = arr[0];
for (Integer key : hashMap.keySet()) {
    int maxKeyValue = hashMap.get(maxKey);
    int tempValue = hashMap.get(key);
    if (maxKeyValue < tempValue) {
        maxKey = key;
    }
}
```