

Ques Rat in a maze

● 1	0	0	0
1	1	0	1
1	1	0	0
0	1	1	1 ●

U D L R

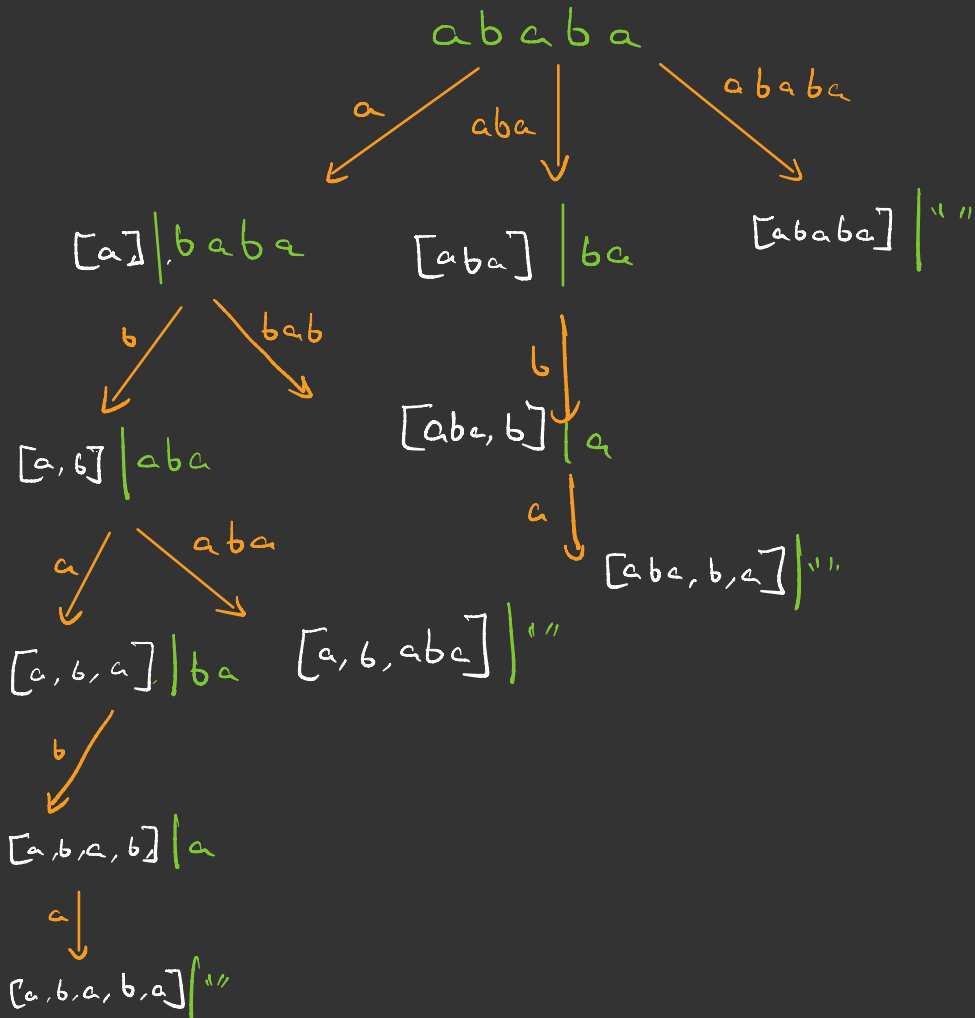
$3^{n \times n}$

$\Rightarrow O(3^{n^2})$

Ques Palindrome partition

ababa \rightarrow a, b, a, b, a
aba, b, a
a, b, aba
a, bab, a
ababa

Expectation



```

public void helper(String s, ArrayList<String> myCurrentPartions) {
    if(s.length() == 0) {
        ans.add(new ArrayList<>(myCurrentPartions));
        return;
    }
    for(int i = 1; i <= s.length(); i++) {
        String prefix = s.substring(0, i);
        if(isPalindrome(prefix)){
            String remaining = s.substring(i);
            myCurrentPartions.add(prefix);
            helper(remaining, myCurrentPartions);
            myCurrentPartions.removeLast();
        }
    }
}
}

```

$TC \Rightarrow O(2^n \times n)$

Ques Sudoku Solver

	0	1	2	3	4	5	6	7	8
0	5	3	1	2	7	6			
1	6			1	9	5			
2		9	8					6	
3	8				6				3
4	4			8		3			1
5	7				2				6
6		6					2	8	
7				4	1	9			5
8					8			7	9

① Row

② Column

③ grid

$$gr = r/3 * 3$$

$$gc = c/3 * 3$$