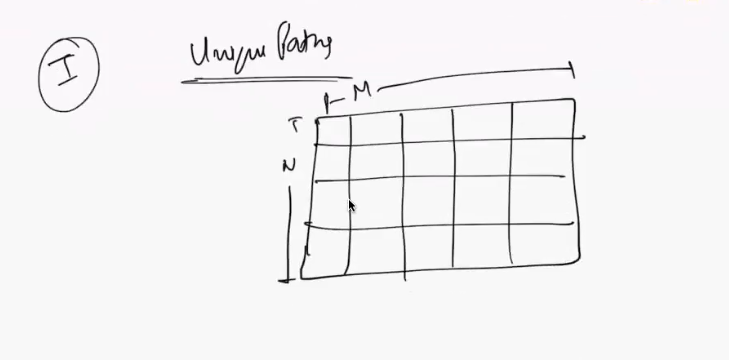
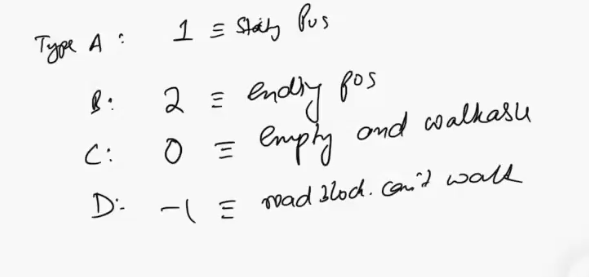
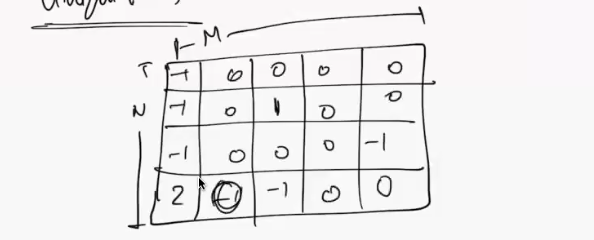
BACKTRACKING

15:00

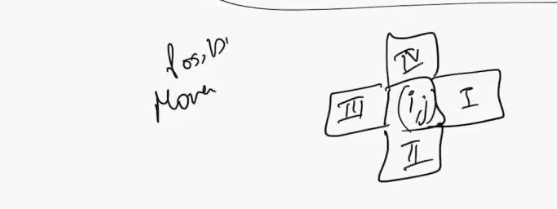


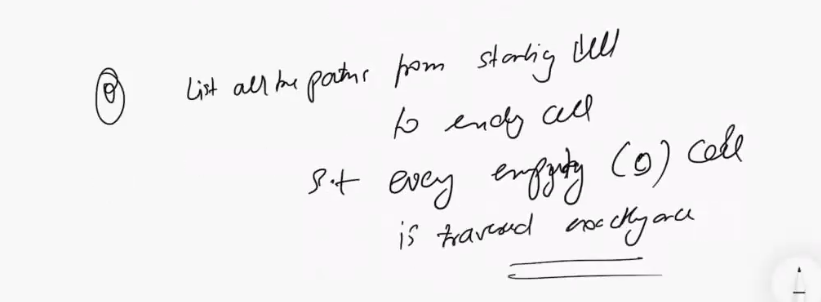
Every value of the grid can one of 4 type

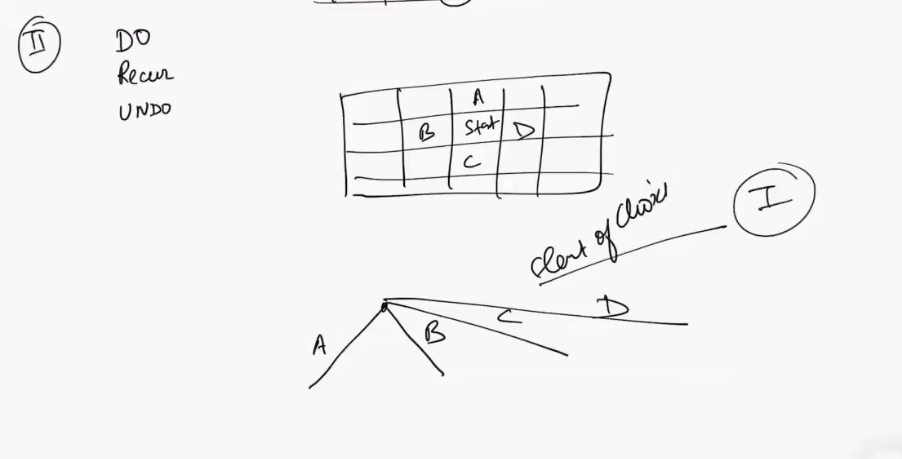




Possible movements are

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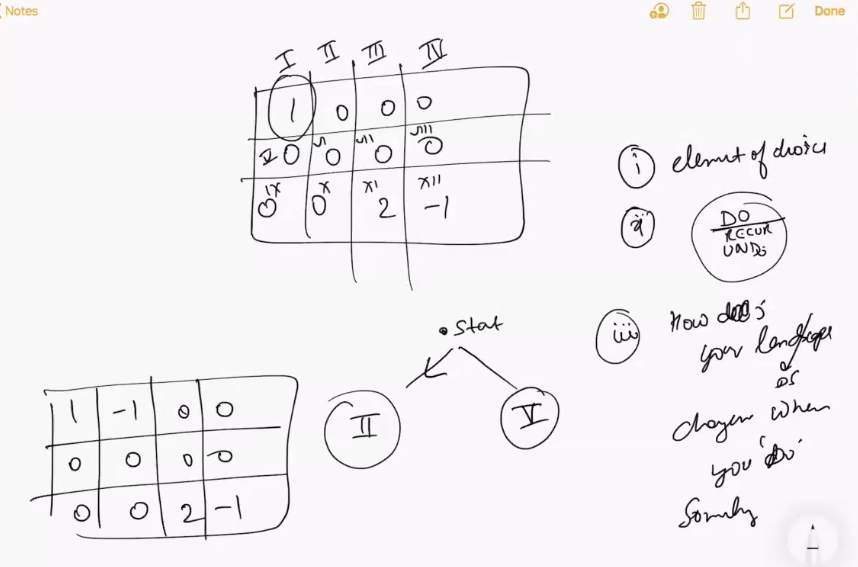
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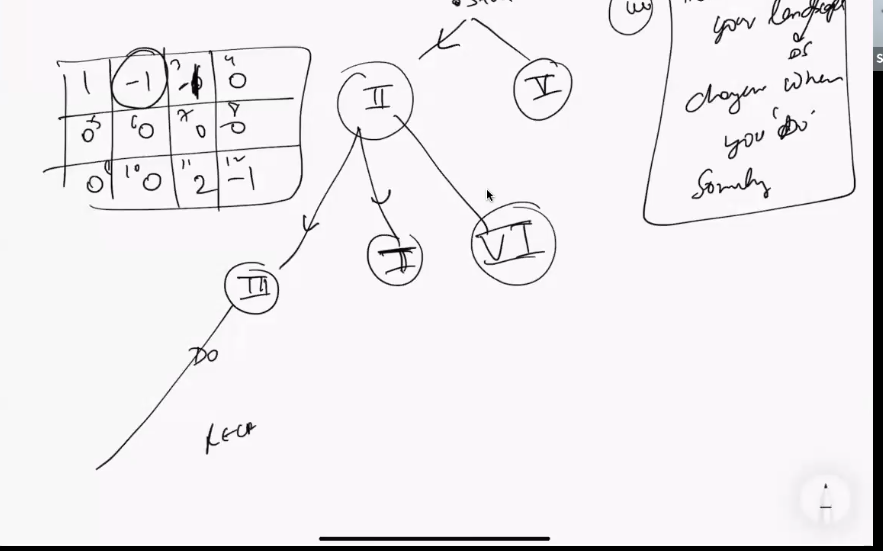
****

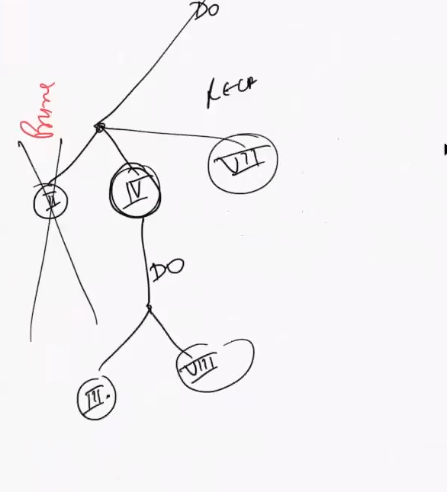
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**When you make choice on a cell you can not make the decision on that cell again so you can make it -1**

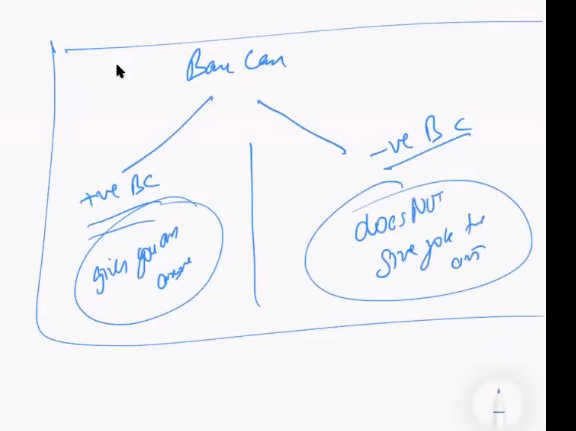
**Again coming back make the change to 0**

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**You always have two base case positive basecase and negative base case**

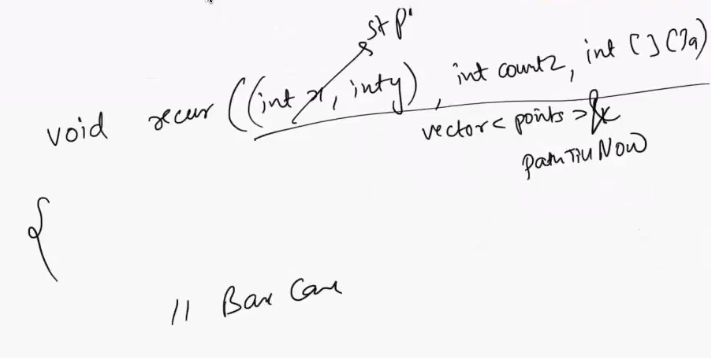
****

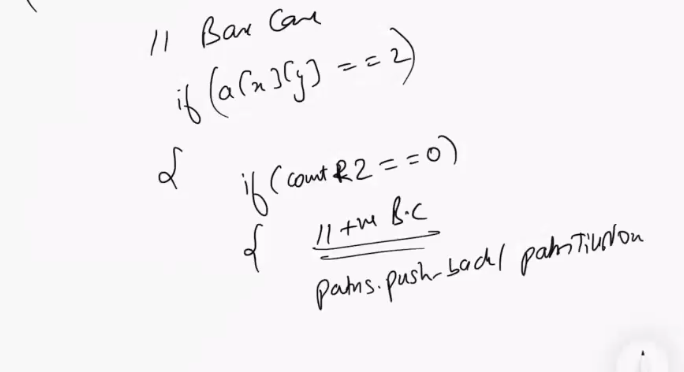
**# base case**

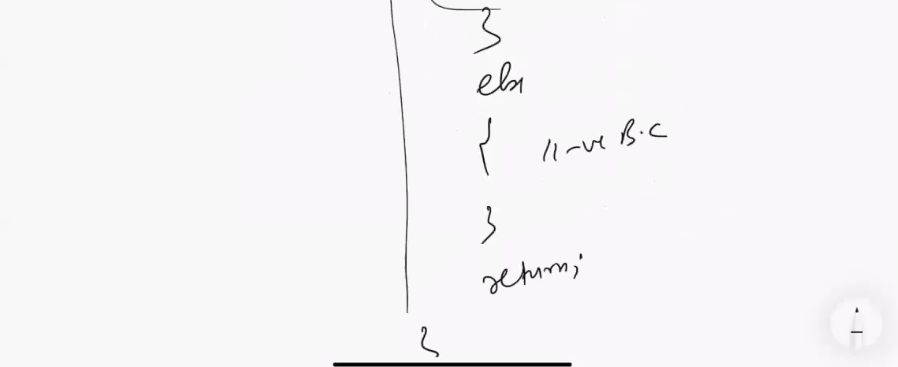
**# recurrence**

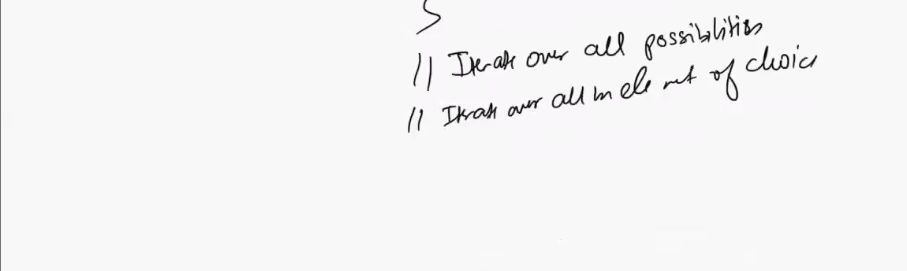
**Recurreance have three partl**

1. **Do**
2. **Recurrance**
3. **UNDO**

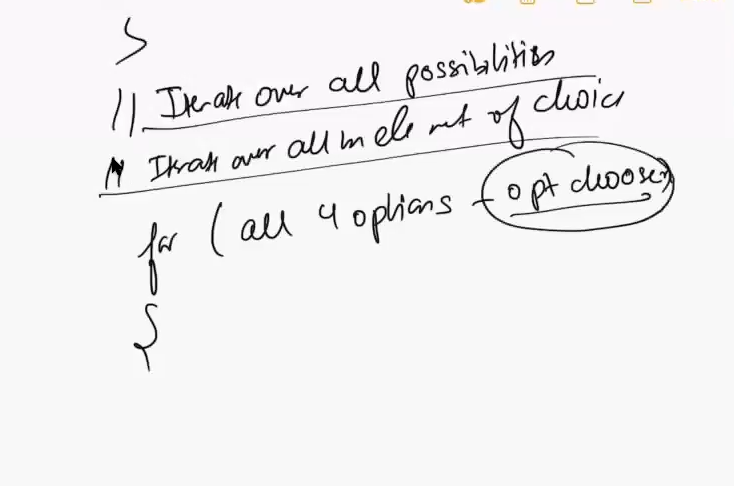
****

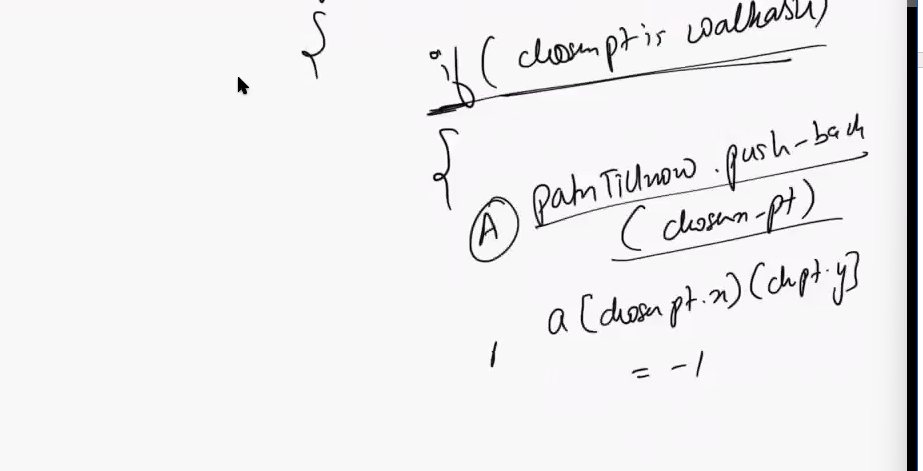
****

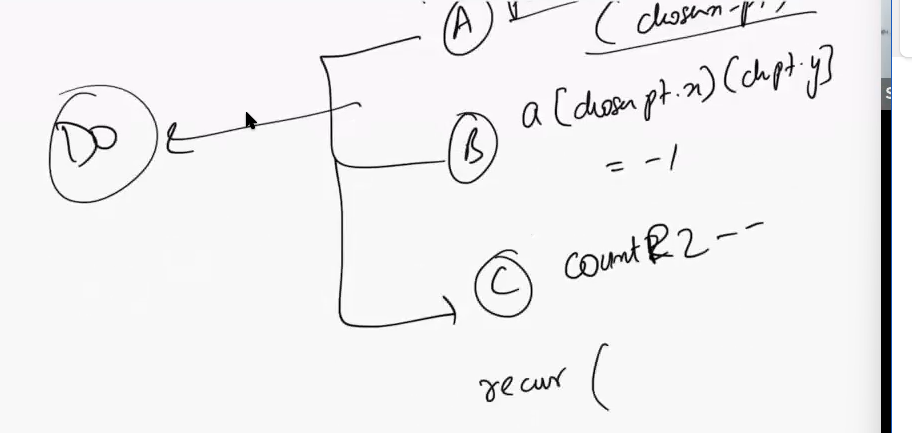
****

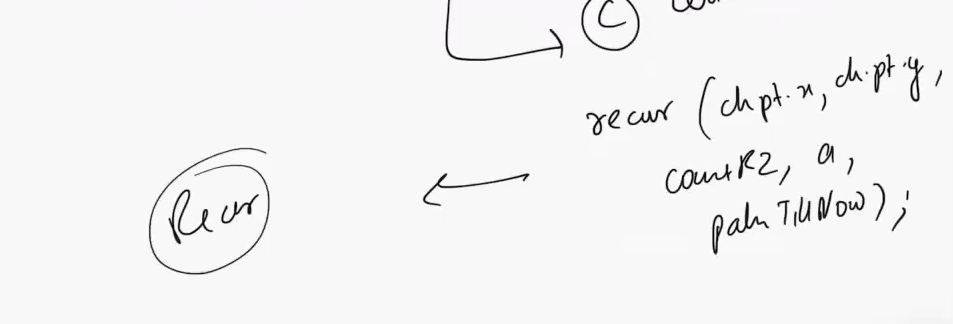
****

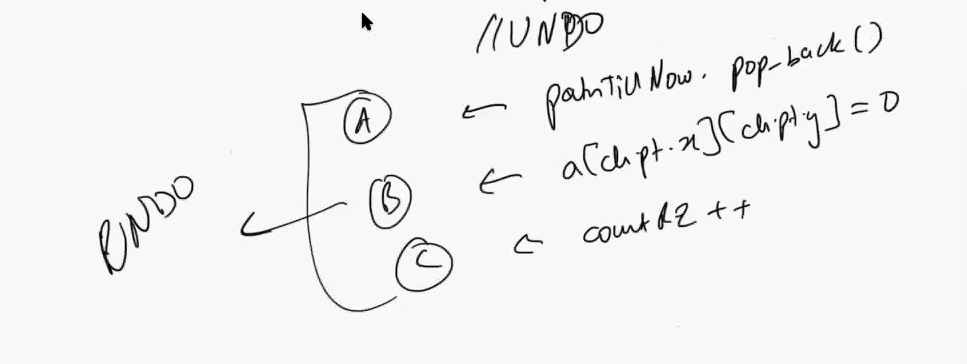
**1:04**

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****

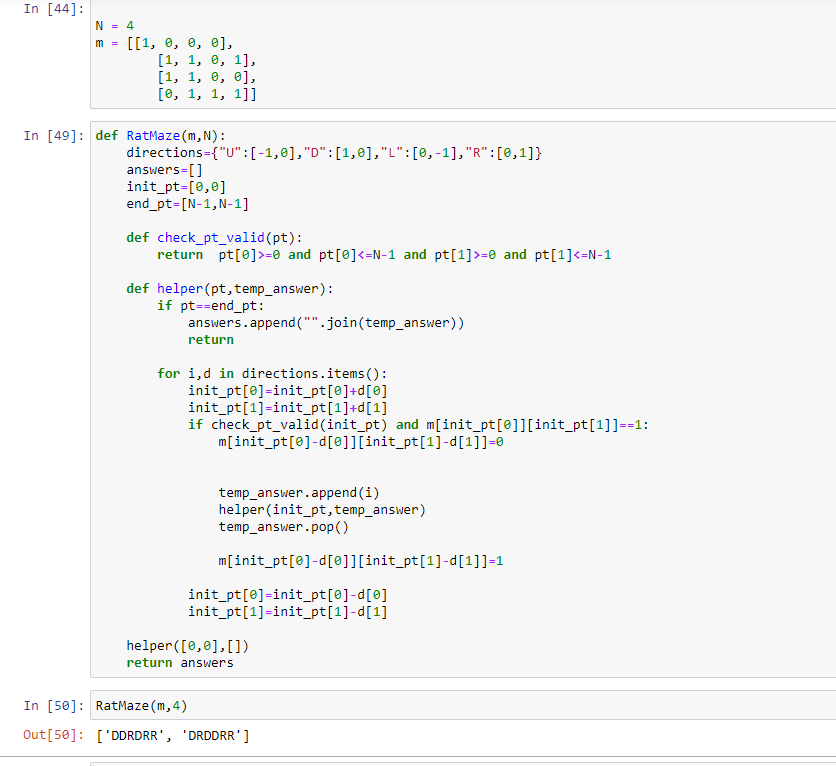
****

****

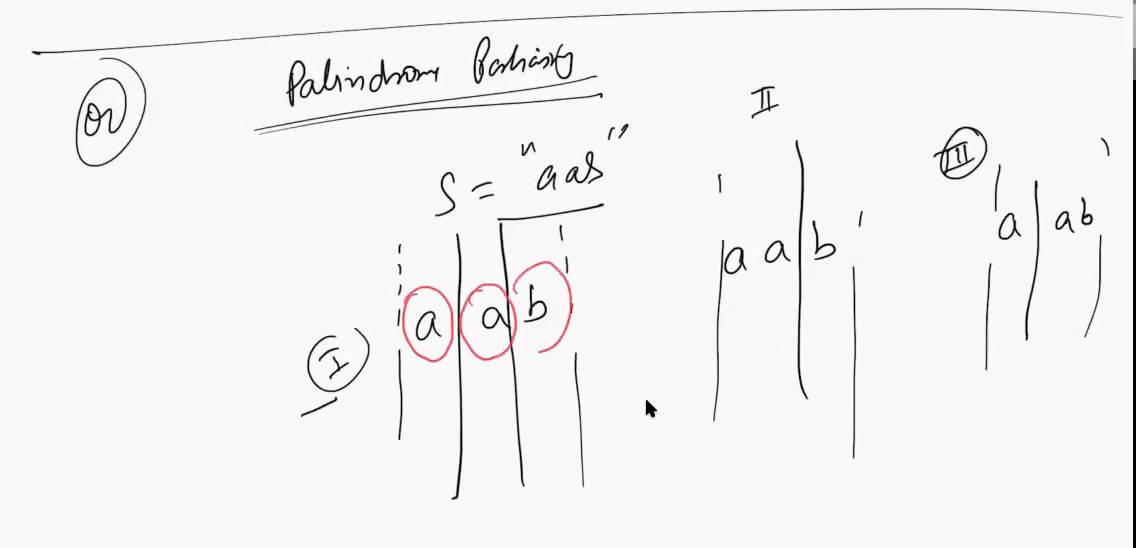
****

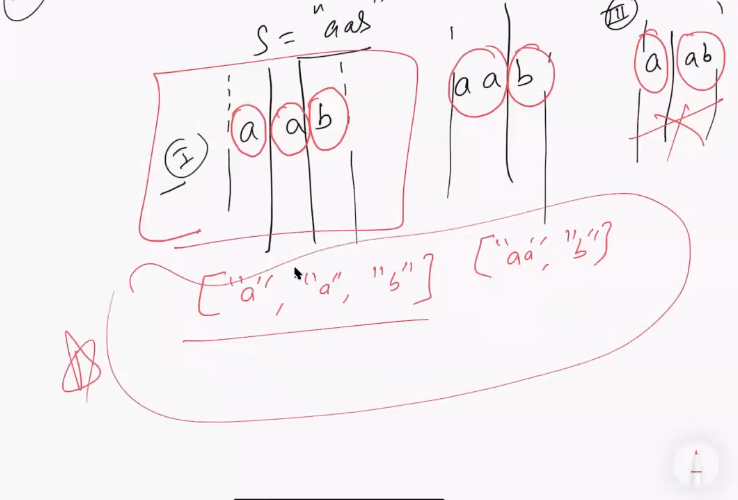
**Similar kind of problem**

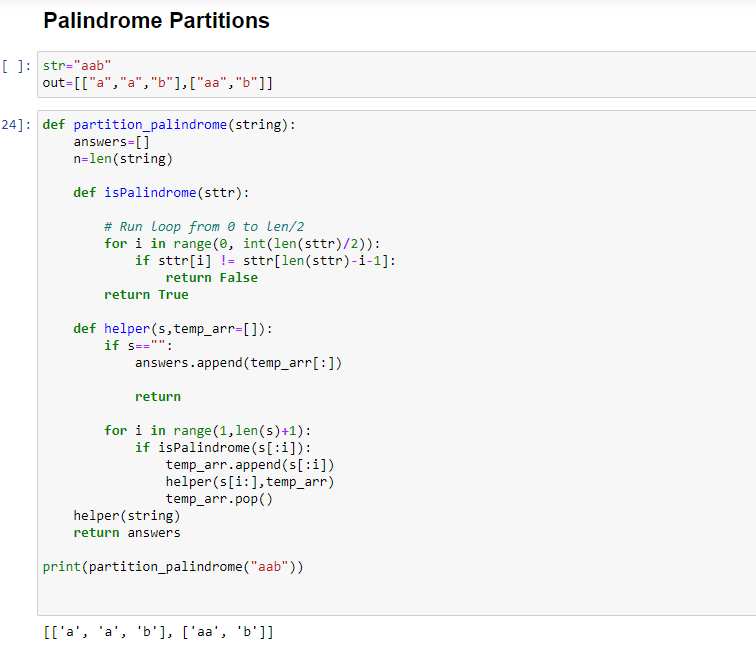
**RAT IN MAZE** [**https://takeuforward.org/data-structure/rat-in-a-maze/**](https://takeuforward.org/data-structure/rat-in-a-maze/)

****

**1:10**

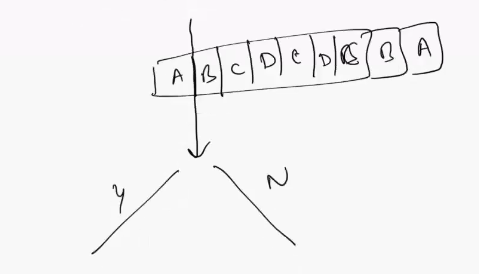
****

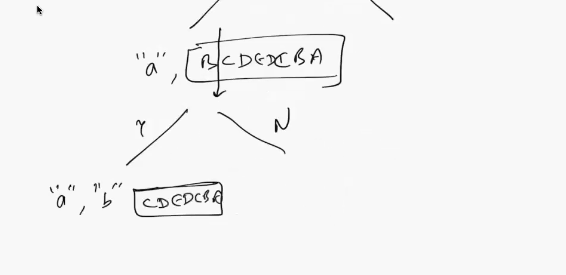
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**The first thing is what is the element of choice that you have**

**After A INDEX SHOULD I INTRODUCE A Partition or not to introduce a partition**

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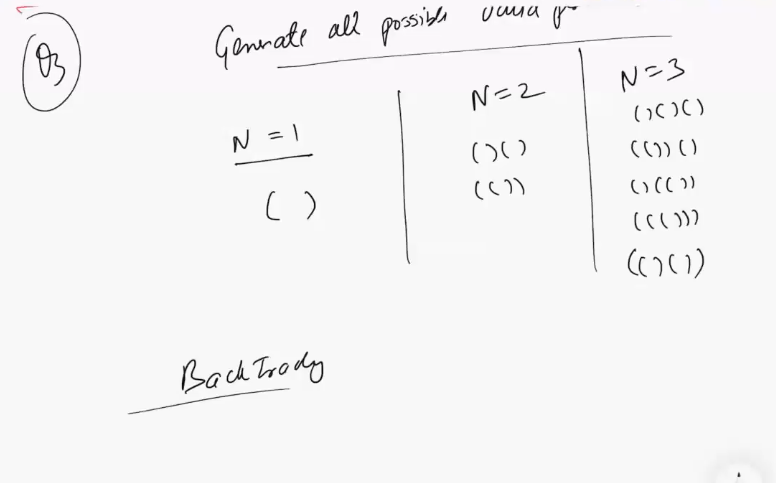
****

**Whenever you hit a basecase you undo your decision**

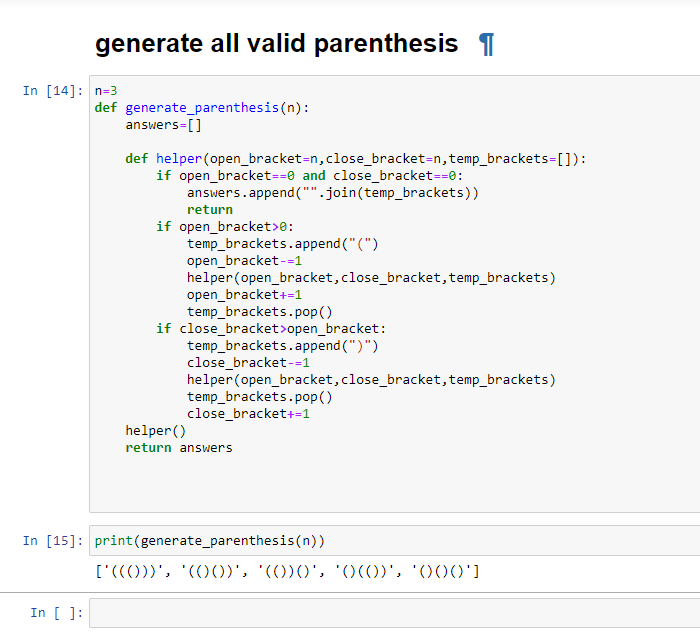
**You have time complexity is 2^n**

**1:33**

**Question 3 : generate all the possible valid parenthesis**

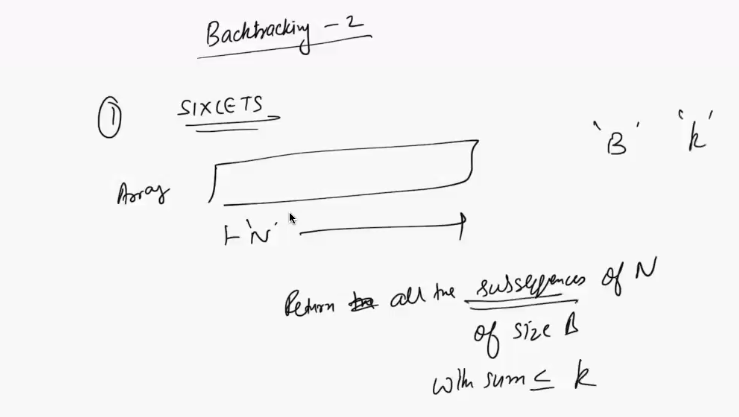
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**There is only 2 choices either chose a opening bracket or a closing bracket**

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**1:39**

**Backtracking 2**

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