

```

public static void CT(int n, String path) {
    if(n==0) {
        System.out.println(path);
        return;
    }
    BP : CT(n,"");
    SP : CT(n-1,);
    CT(n-1, path+"H");
    CT(n-1, path+"T");
}

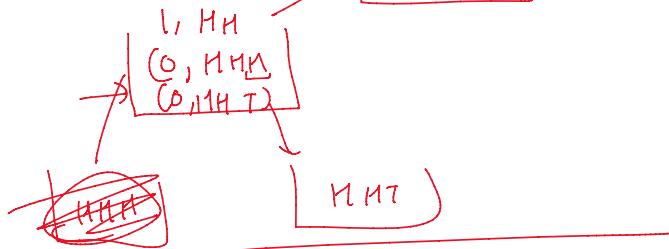
```

3, " "

CT(2, "H")

2, "HH"

(1, HH)



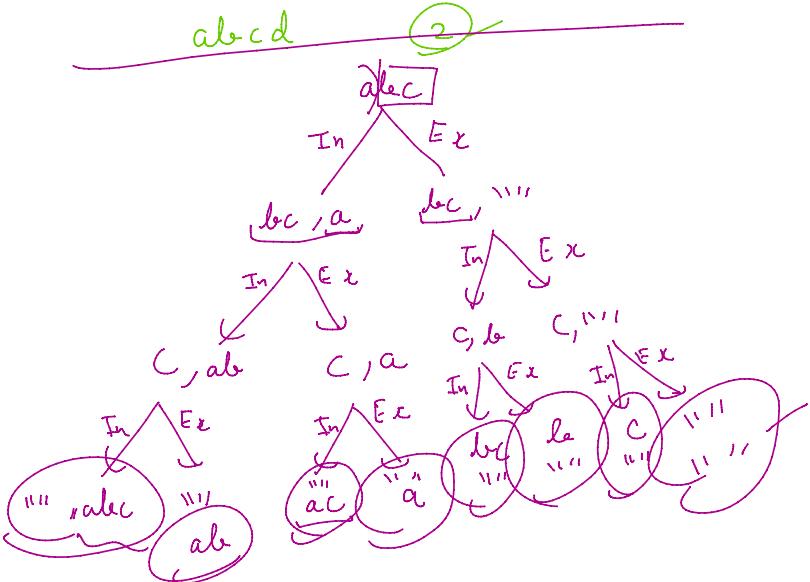
"abcd"

4_{l_0}	a	ab	abc	abcd
b	ac	ad	abd	
c	bc	bd	acd	
d	cd	cd	bcd	
4_{l_1}	4_{l_2}	4_{l_3}	4_{l_4}	

$4_{l_4} = \binom{2}{2} = 1$

$\begin{matrix} a & b & c & d \\ \checkmark & \checkmark & \checkmark & \times \end{matrix}$

abc bac acb bca



```

public static void SS(String str, String team) {
    if (str.isEmpty()) {
        System.out.println(team+"=>");
        return;
    }
}

```

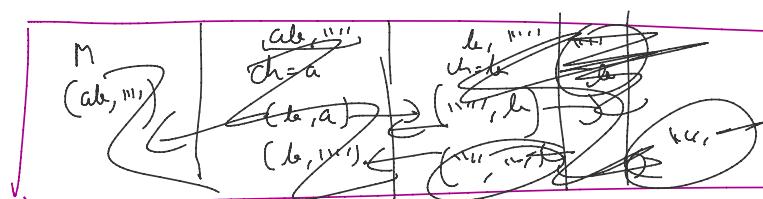
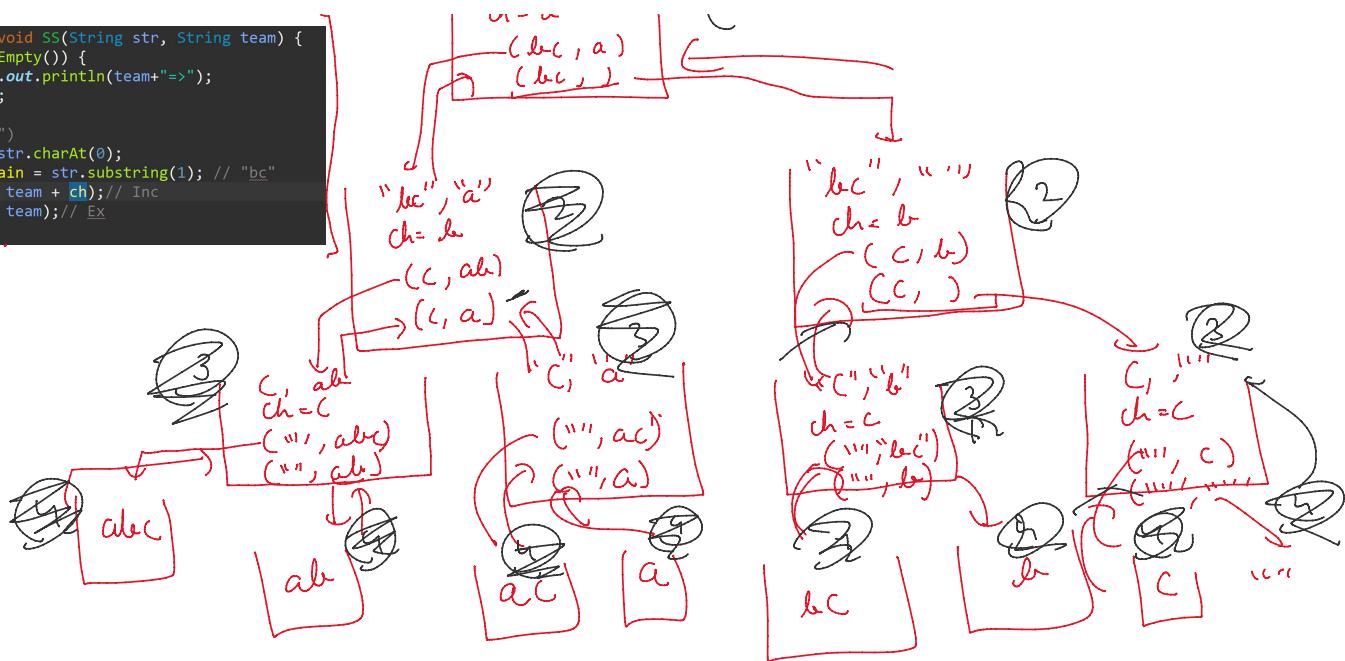
"abc", "
ch=a
(bc, a)
(bc,)

5

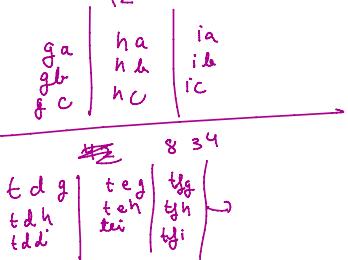
```

public static void SS(String str, String team) {
    if (str.isEmpty()) {
        System.out.println(team + ">");
        return;
    }
    SS("abc", "")
    char ch = str.charAt(0);
    String remain = str.substring(1); // "bc"
    SS(remain, team + ch); // Inc
    SS(remain, team); // Ex
}

```



4 → ghi
3 → def
2 → tuo



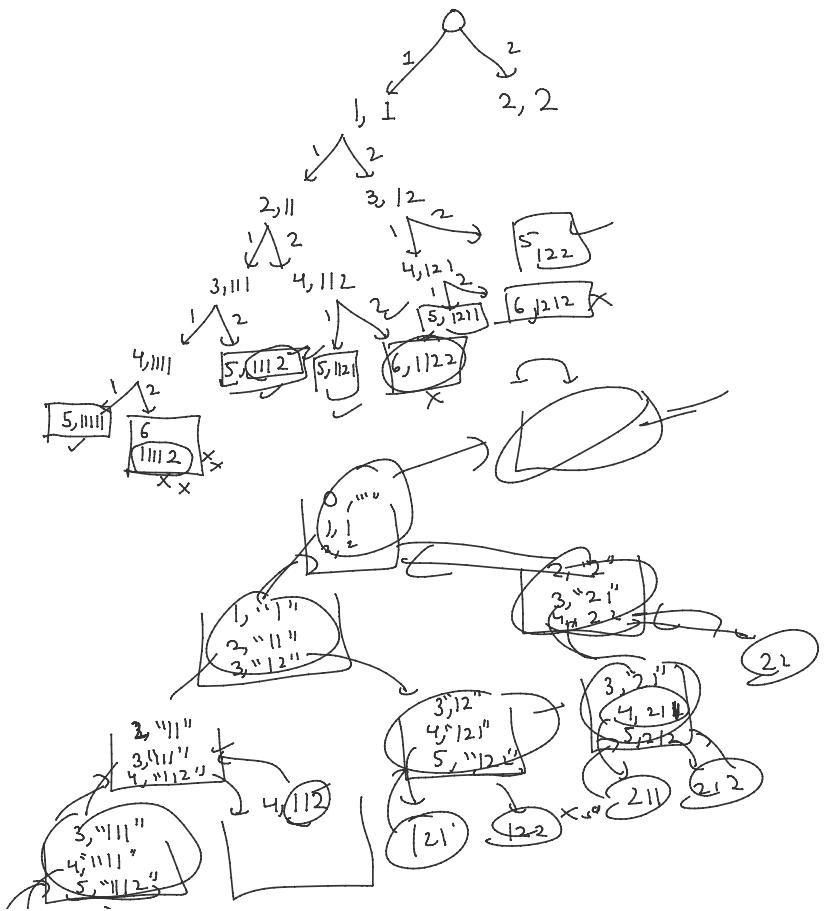
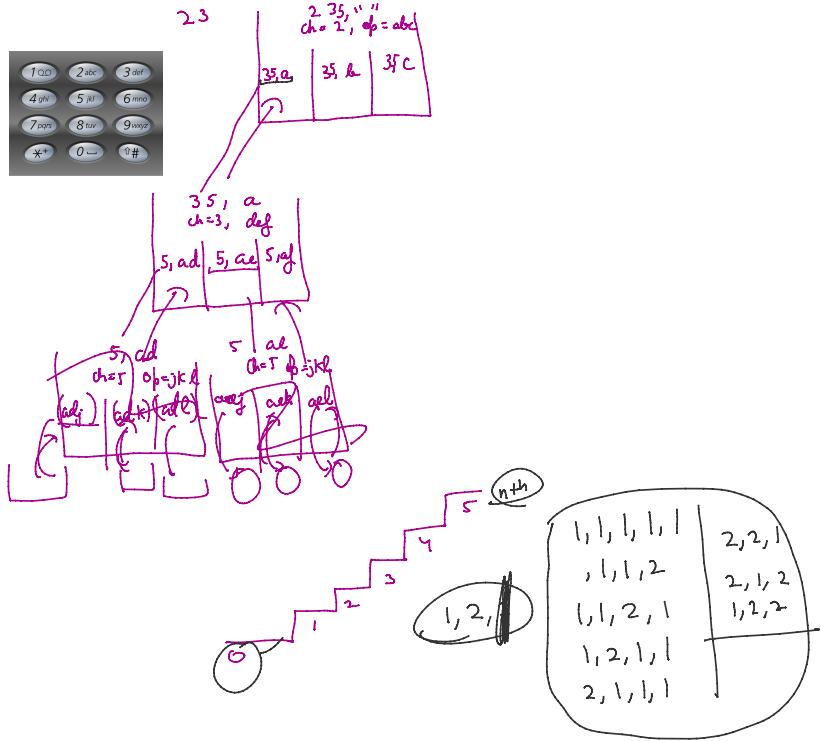
4 1,5

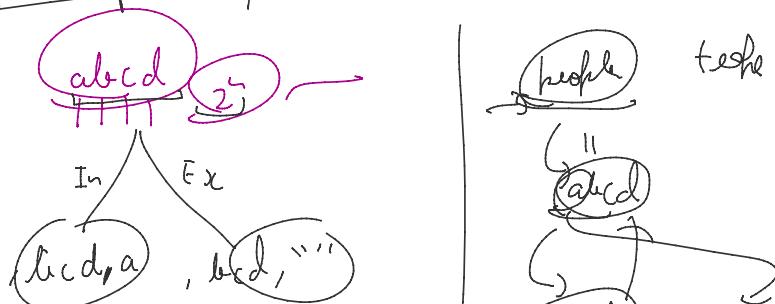
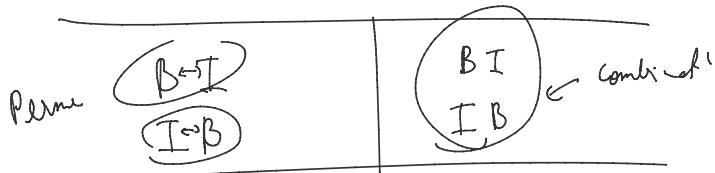
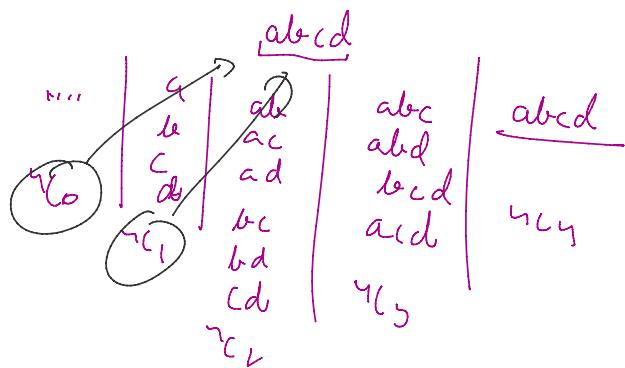
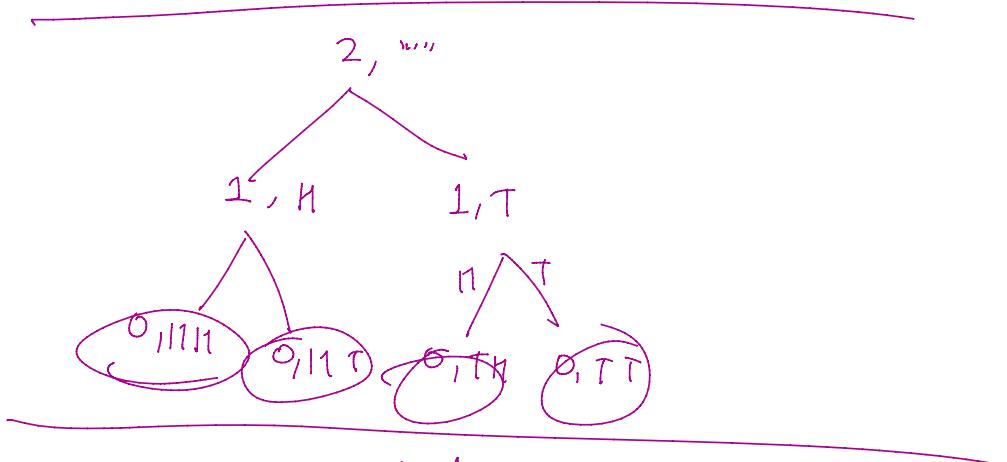
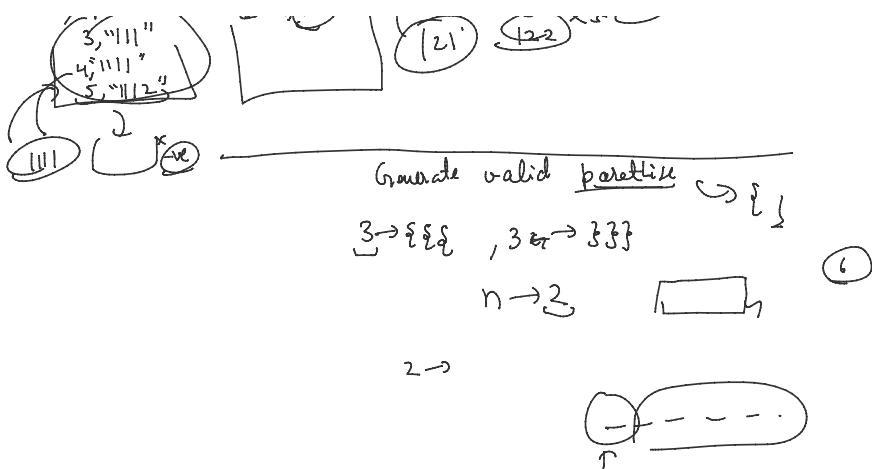


```

public static void LetterKC(String digits, String ans)
{
    if(digits.isEmpty()) {
        System.out.println(ans);
        return ;
    }
    digits = "352";
    char ch = digits.charAt(0); // '3'
    String remain = digits.substring(1); // "52"
    String options = Options(ch); // def
    for(int idx = 0; idx < options.length(); idx++) {
        LetterKC(remain, ans + options.charAt(idx));
    }
}

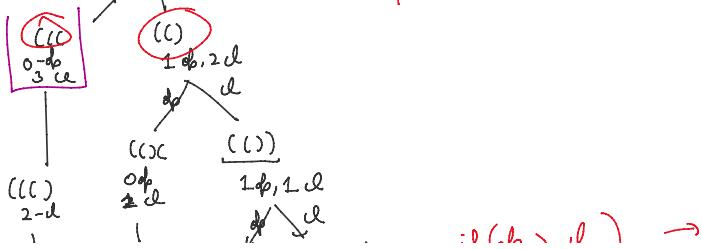
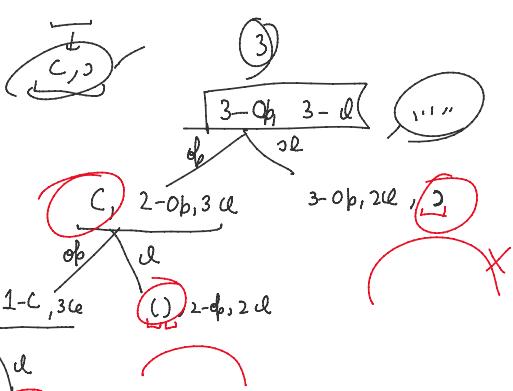
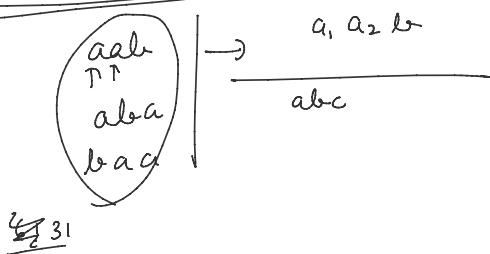
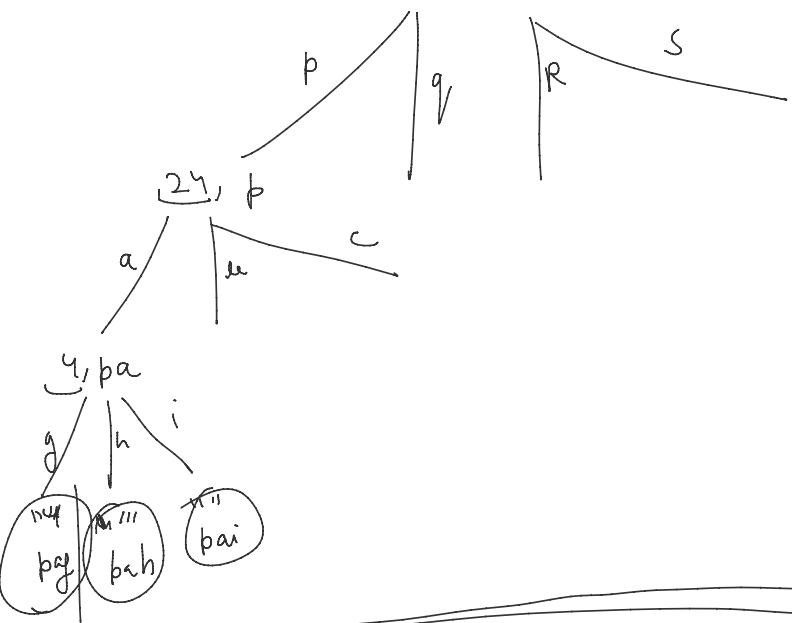
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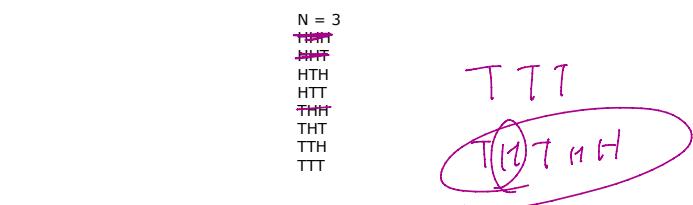
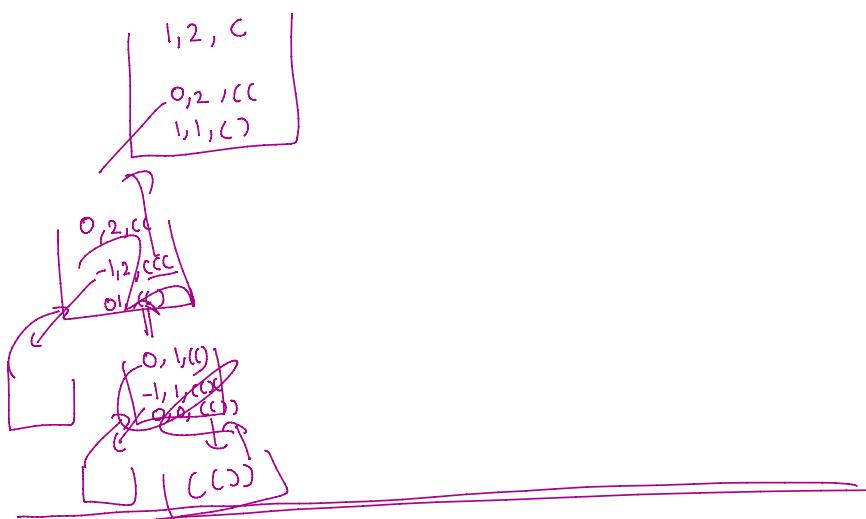
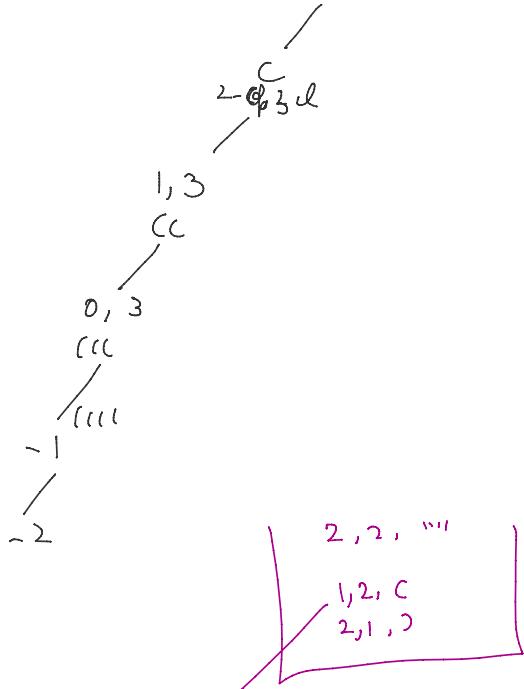
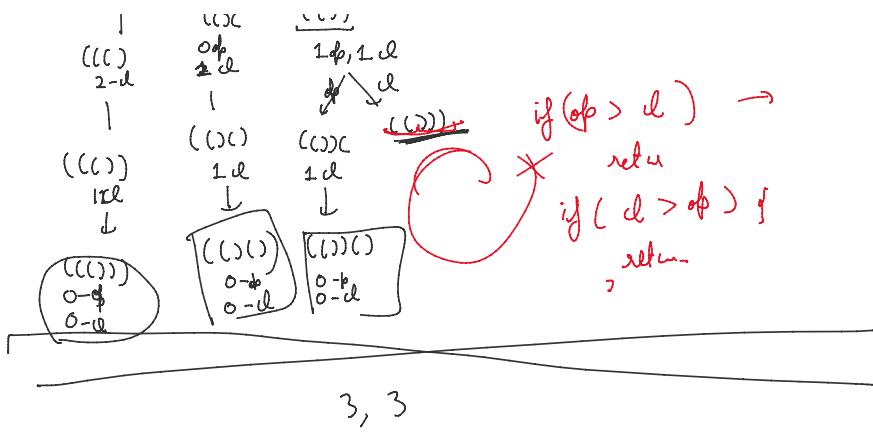


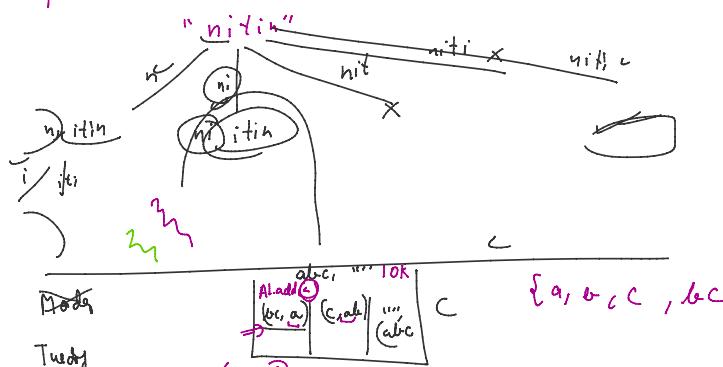
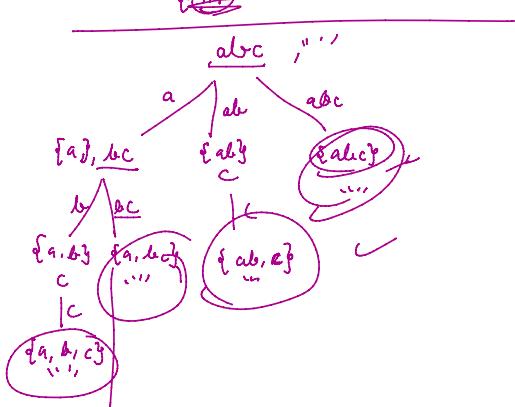
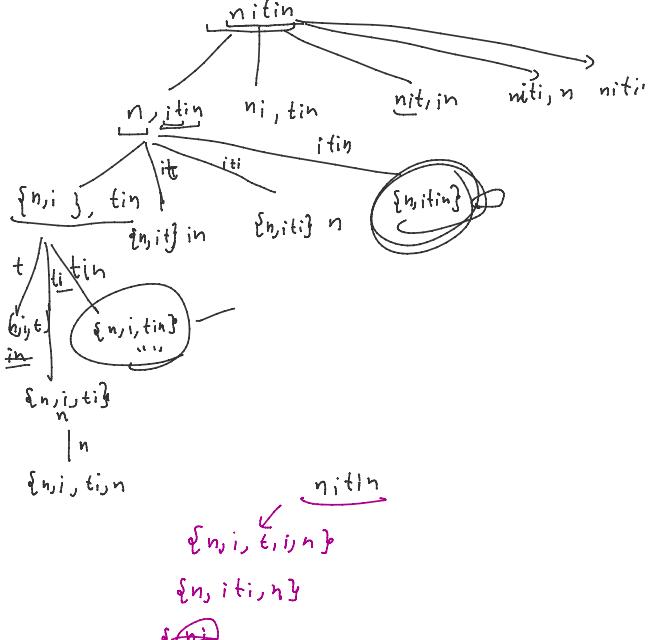
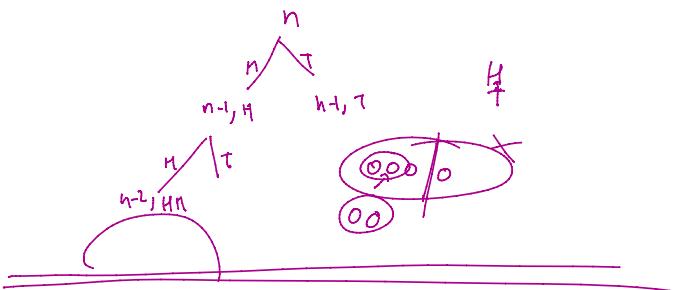




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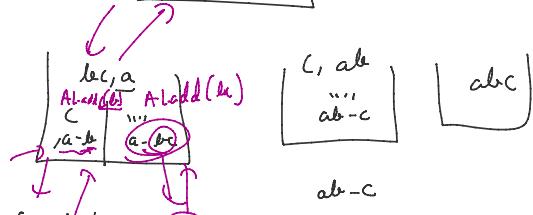






Monday

Tuesday

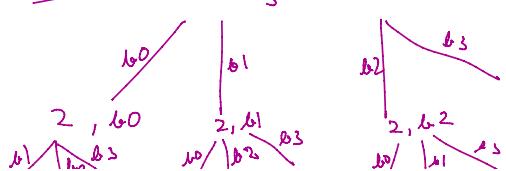
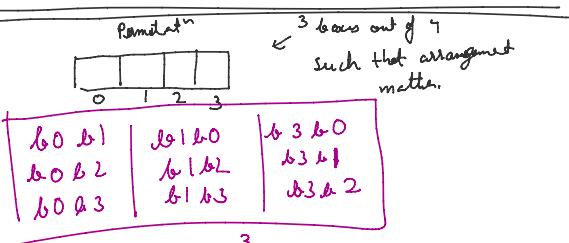
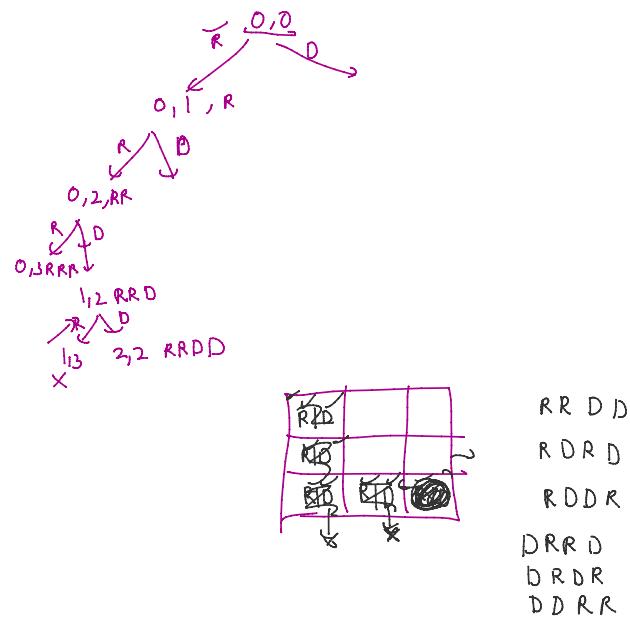
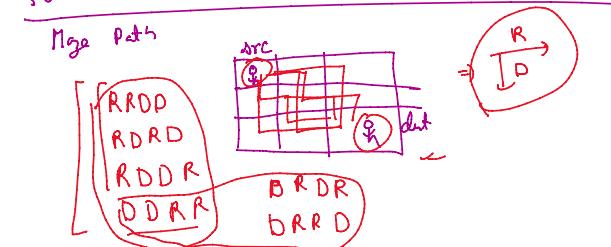
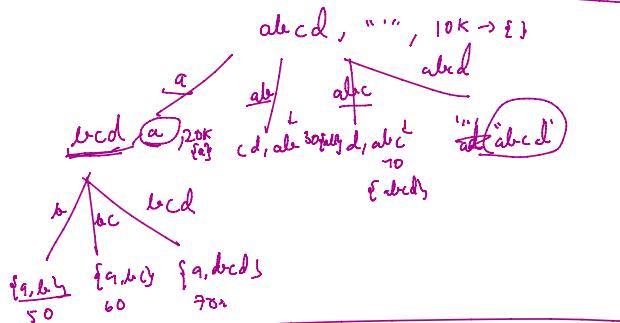
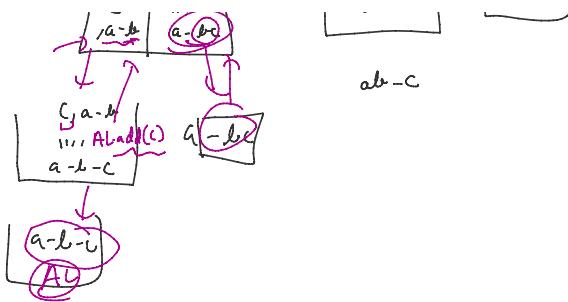


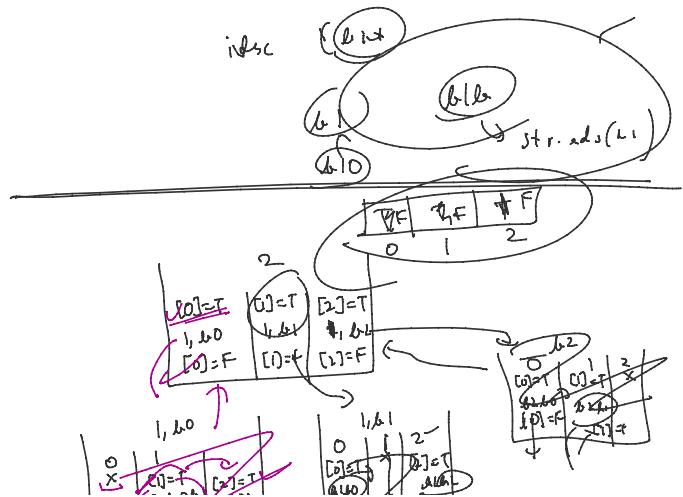
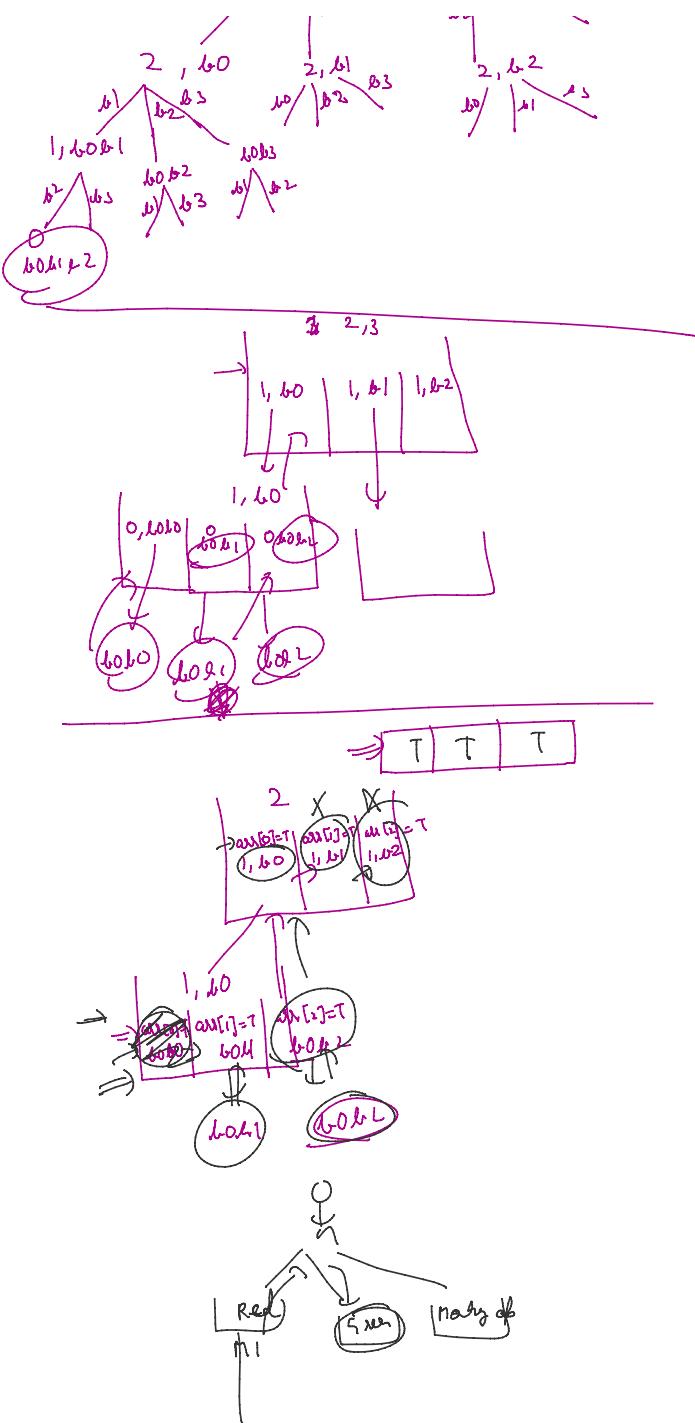
$ab-c$

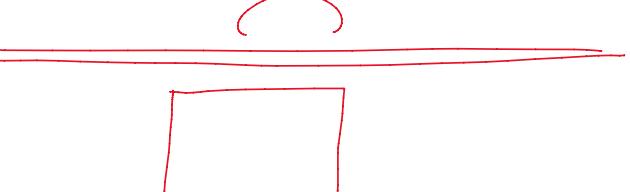
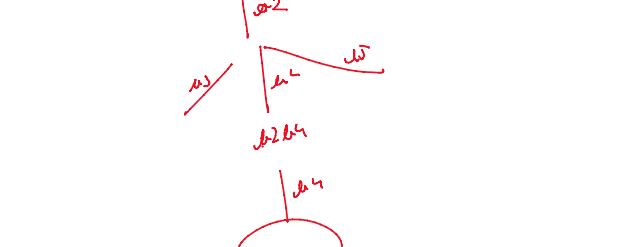
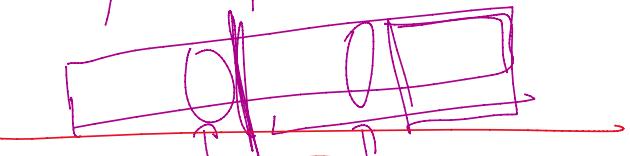
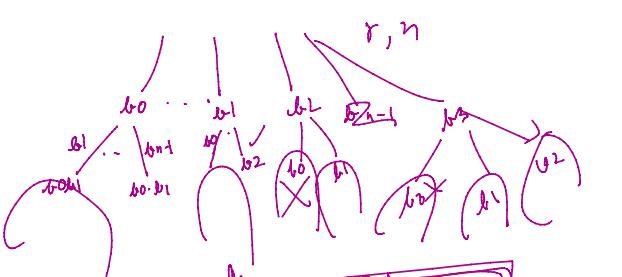
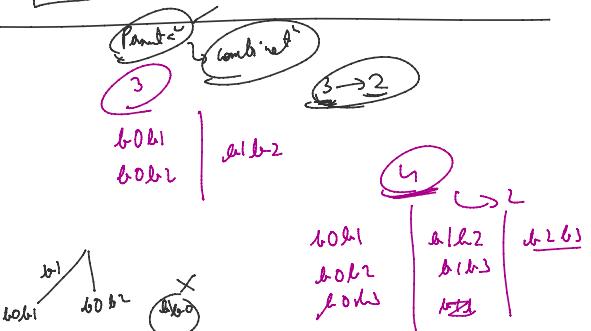
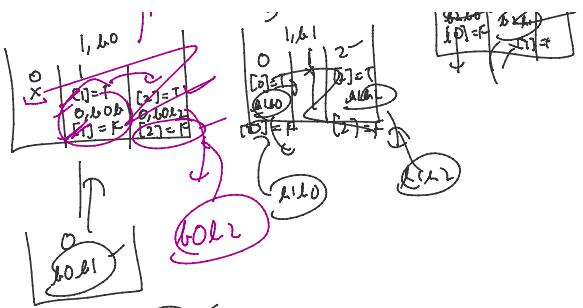
abc

c, abc

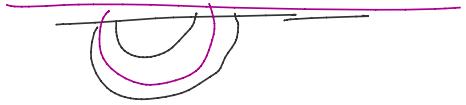
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- $\{0,0,1,0\}\}$



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

