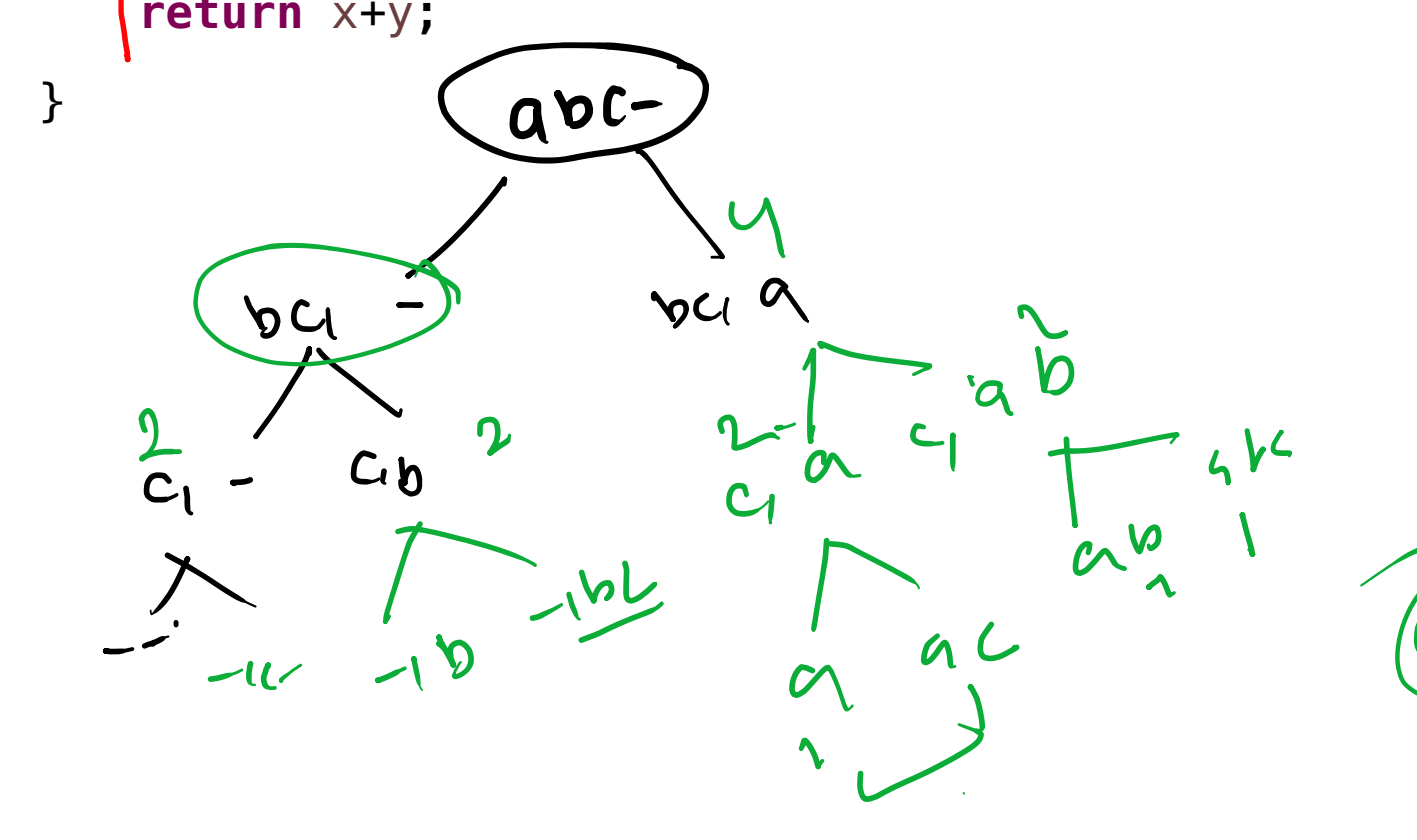
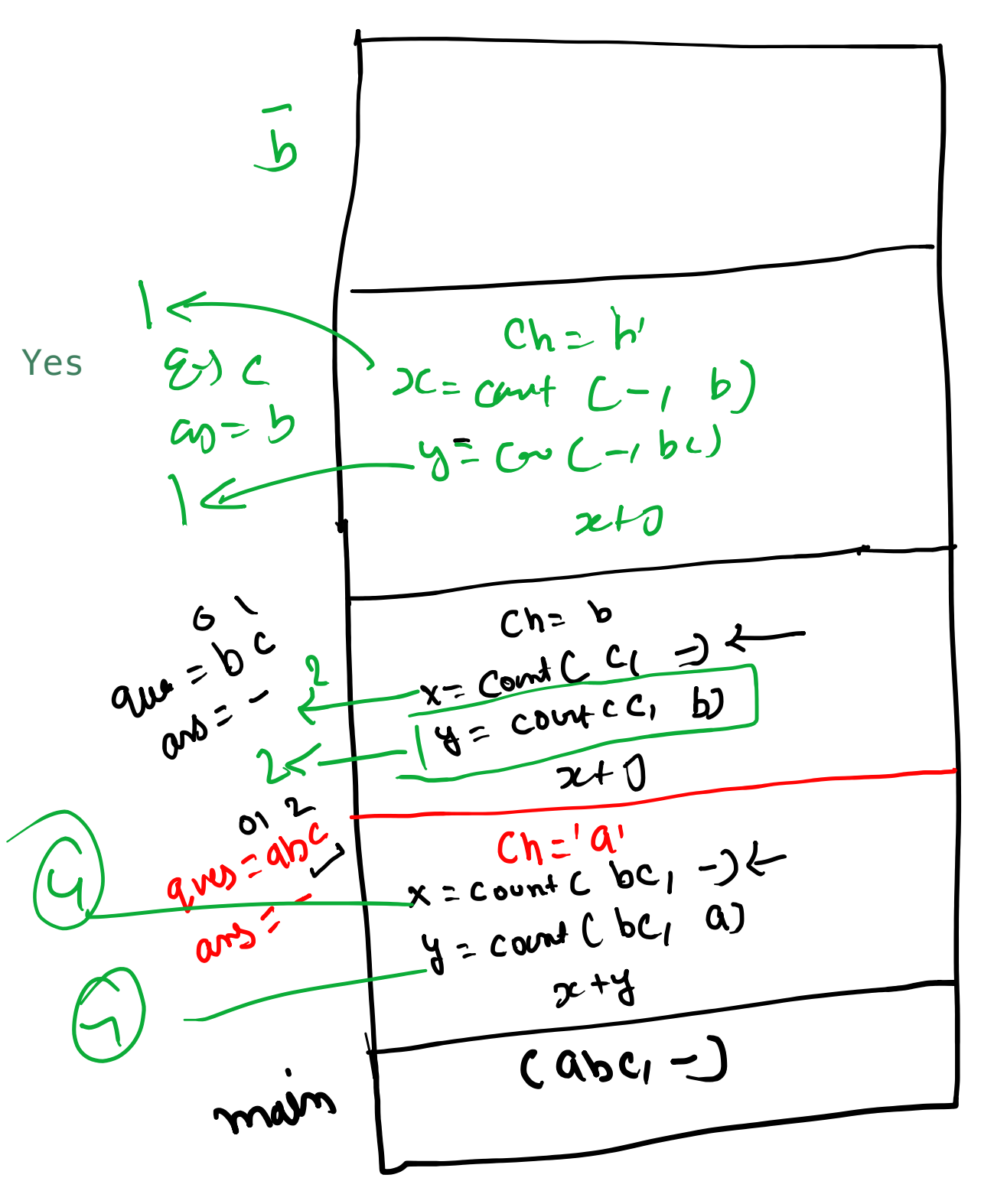
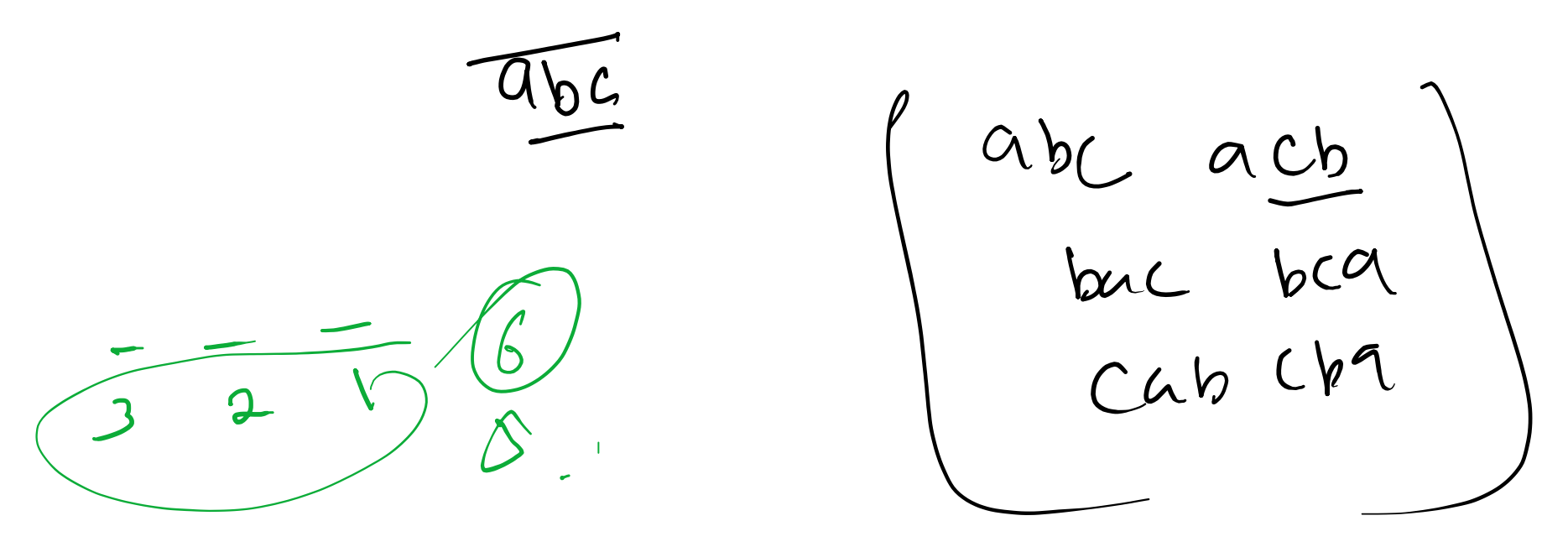
Lec-17

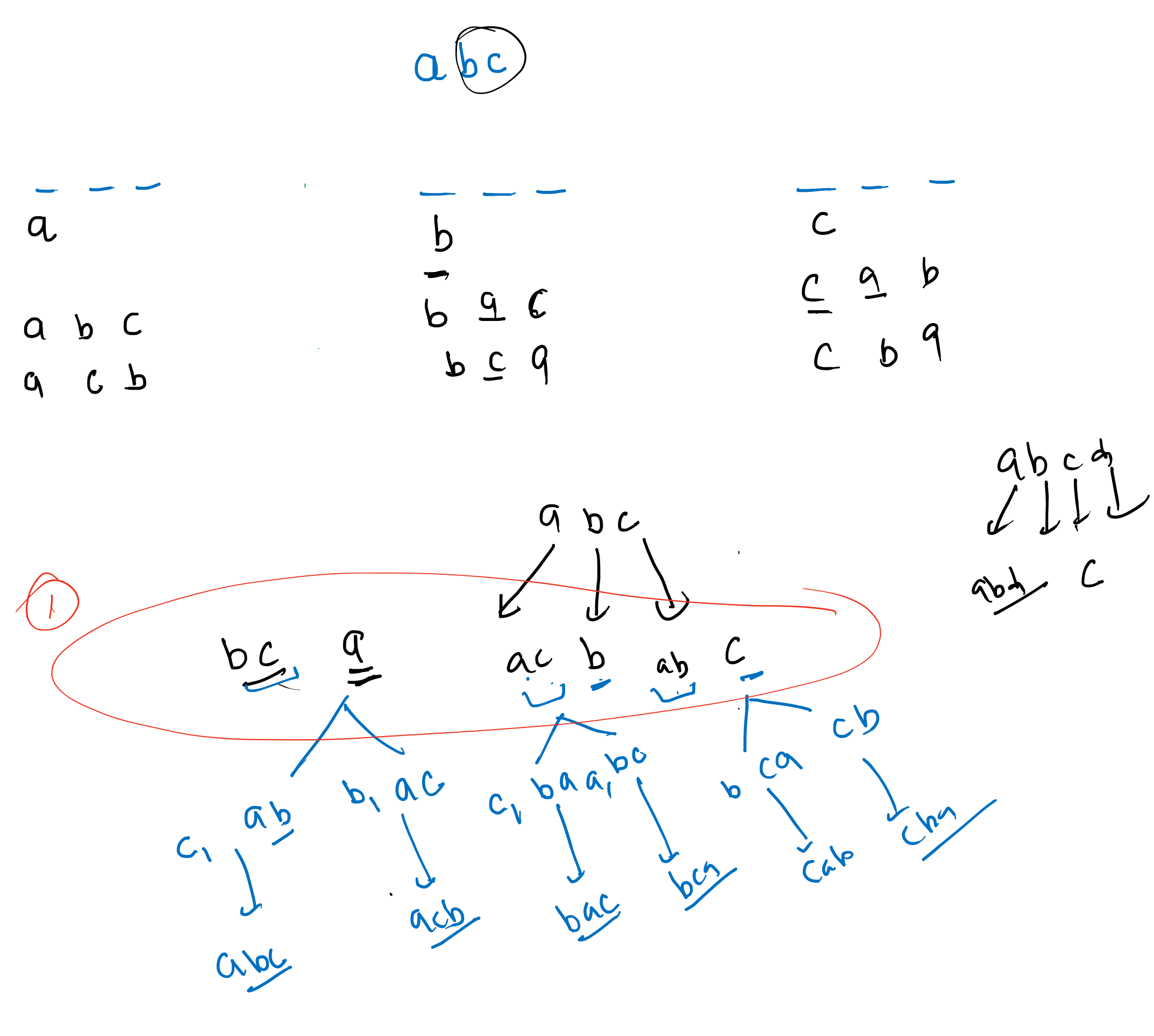
15/06/25 1:14 PM

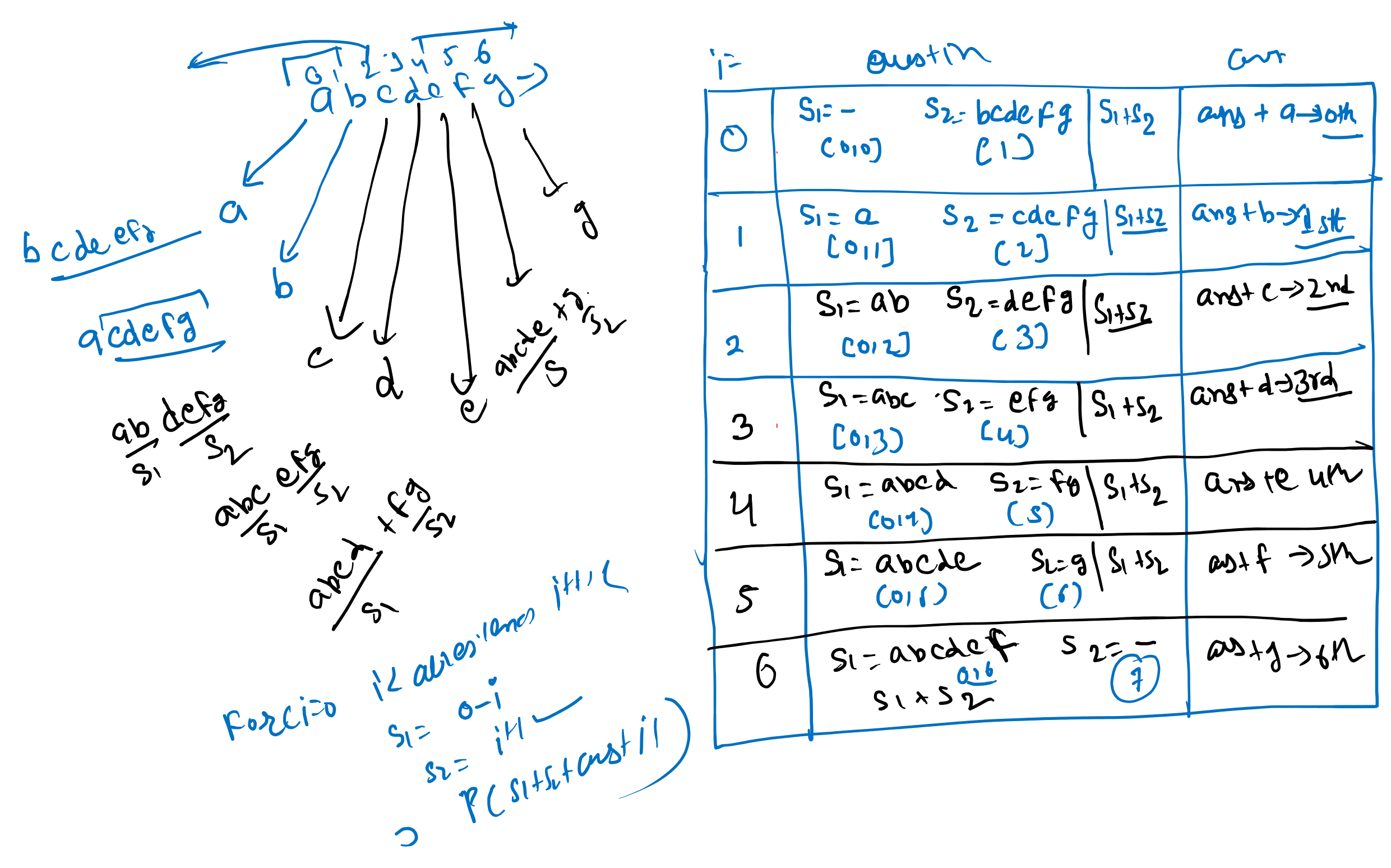
```java
public static int Count(String ques, String ans) {
        if (ques.length() == 0) {
            System.out.print(ans + " ");
            return 1;
        }
        char ch = ques.charAt(0);
        int x=Count(ques.substring(1), ans);// NO
        int y= Count(ques.substring(1), ans + ch);// Yes
        return x+y;

    }
```



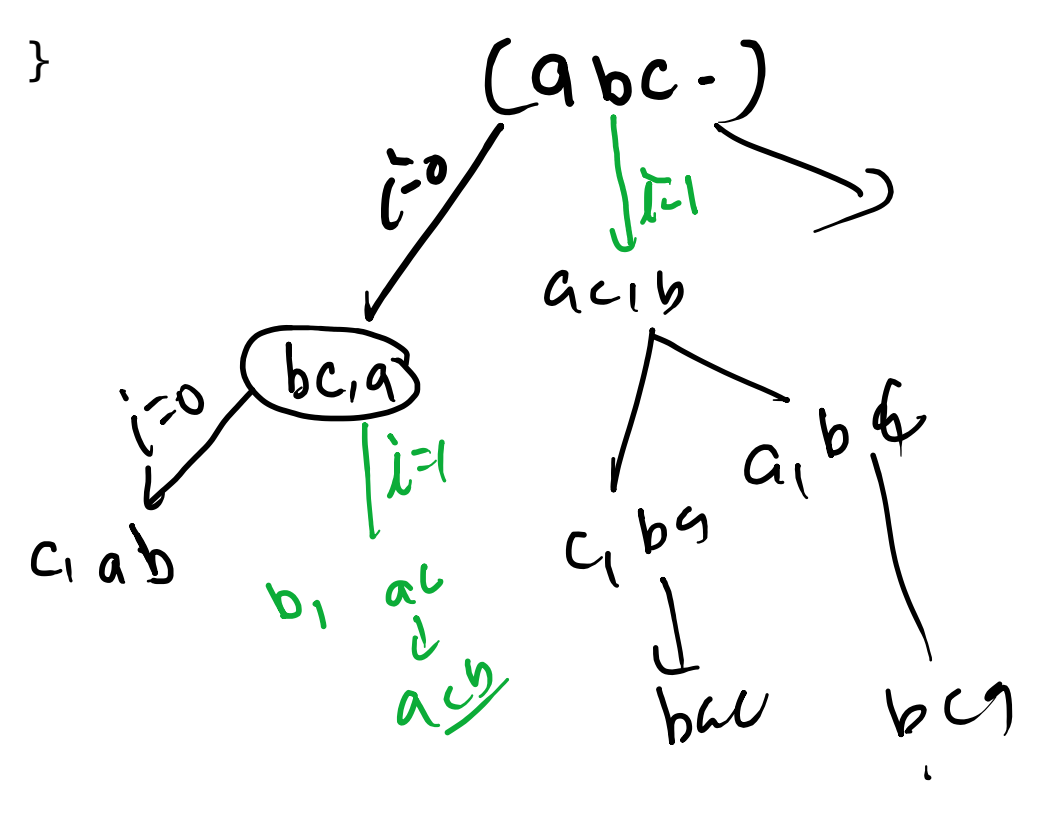


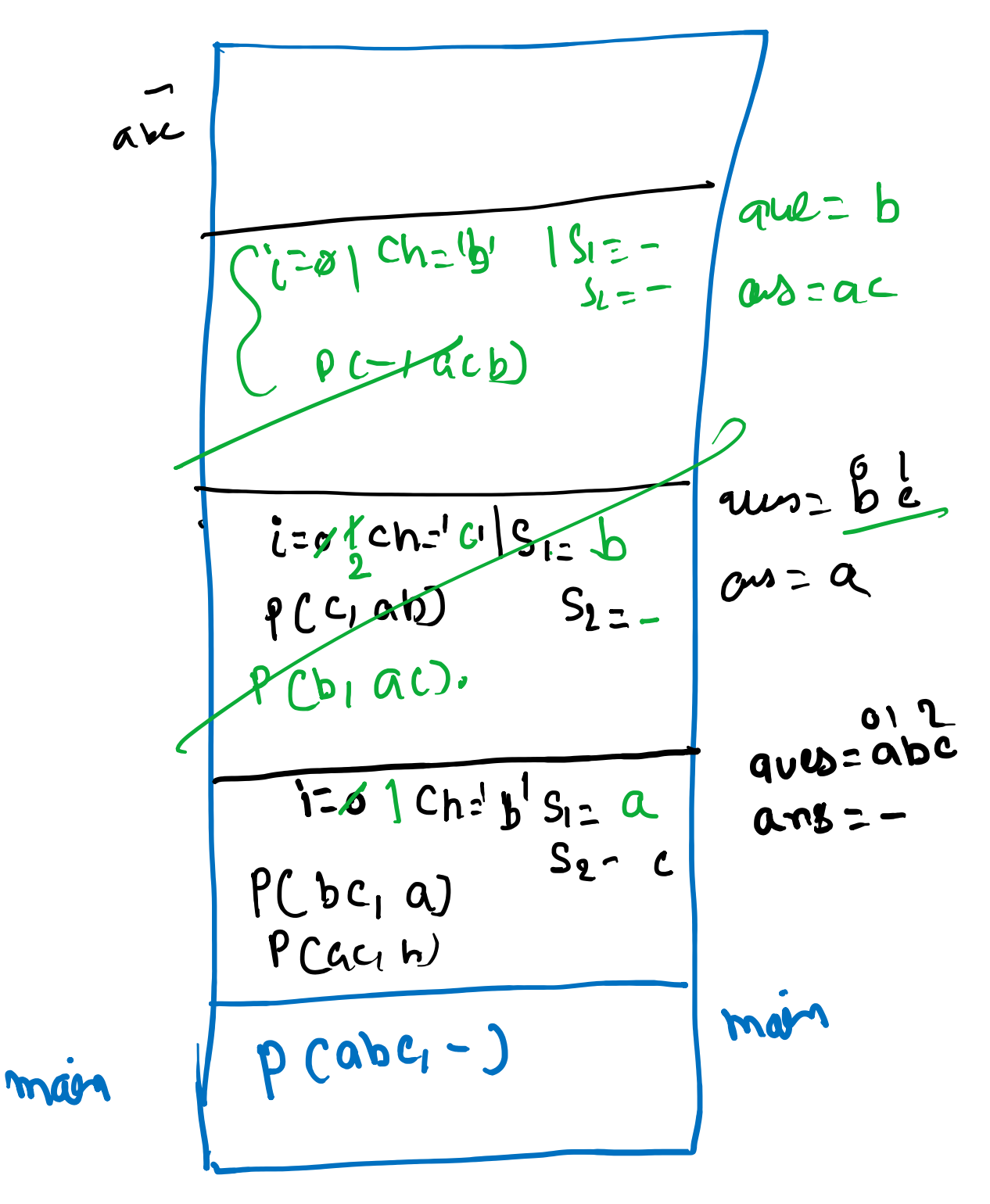






```java
public static void print(String ques, String ans) {
        if (ques.length() == 0) {
            System.out.println(ans);
            return;
        }
        for (int i = 0; i < ques.length(); i++) {
            char ch = ques.charAt(i);
            String s1 = ques.substring(0, i);
            String s2 = ques.substring(i + 1);
            print(s1 + s2, ans + ch);
        }

    }
```





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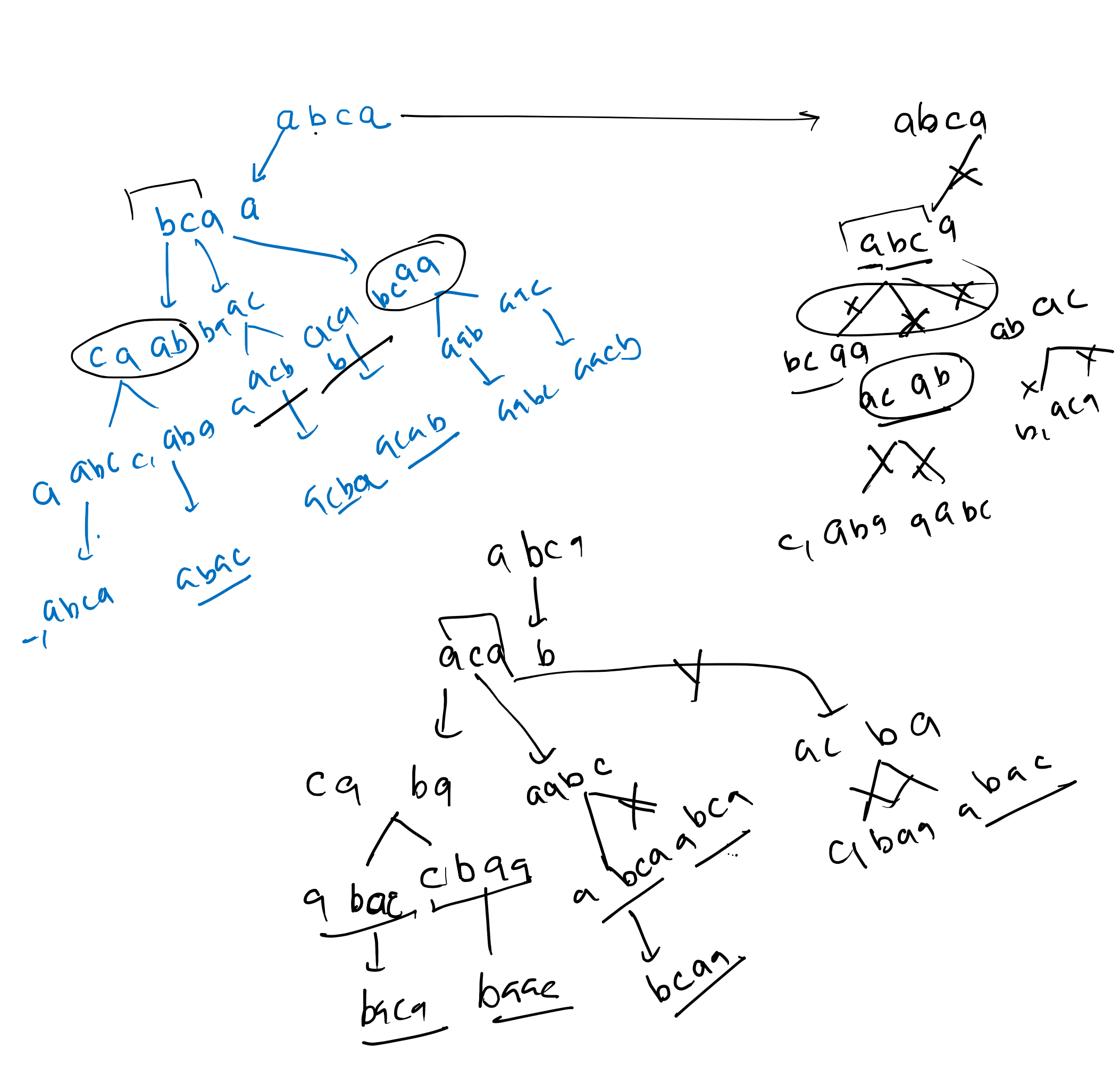
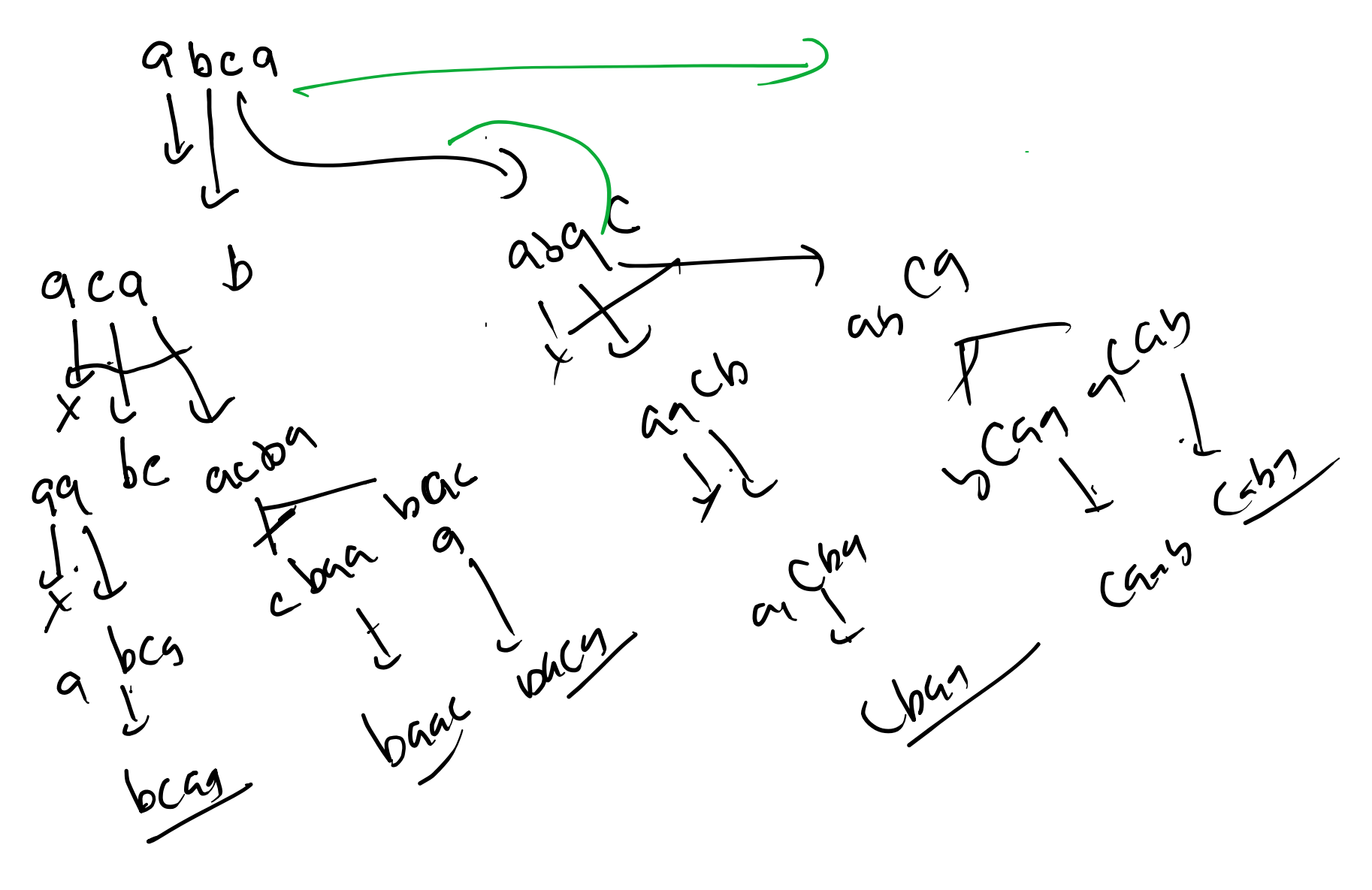
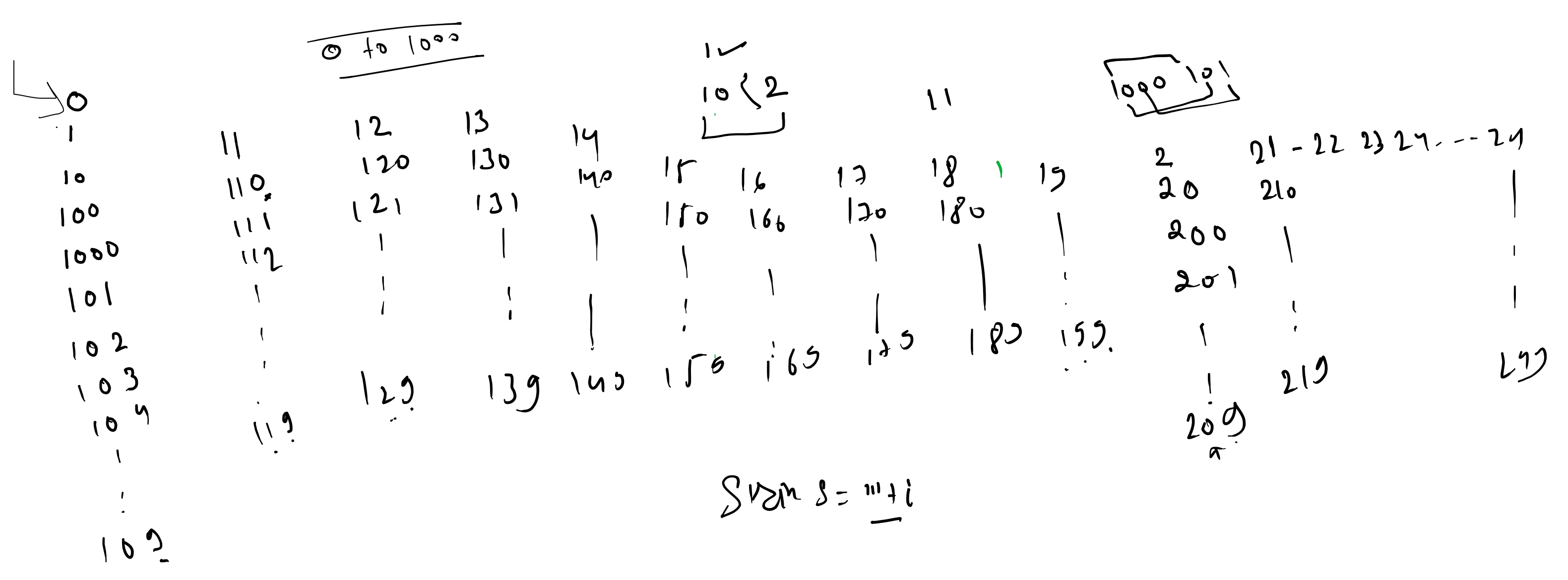
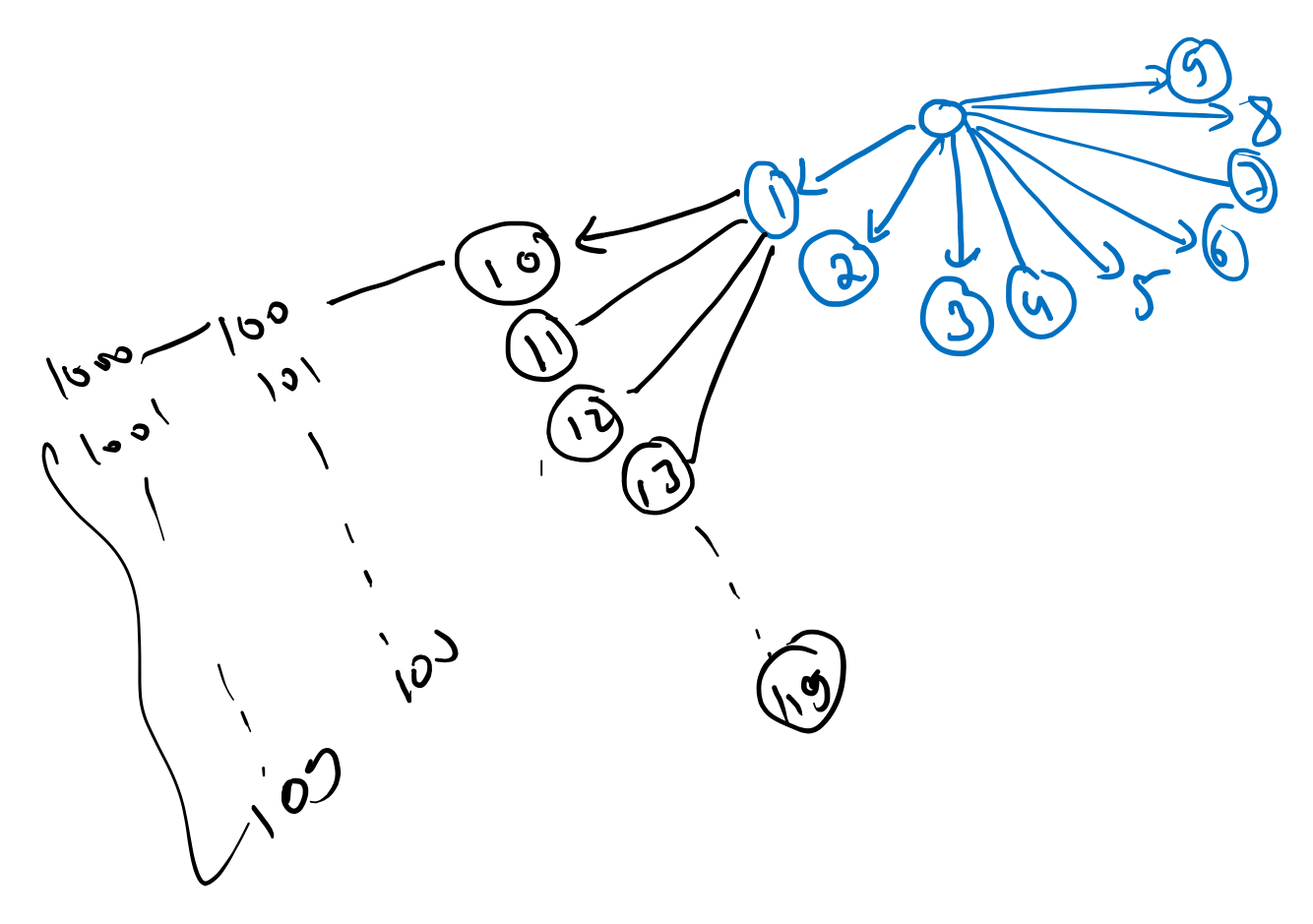


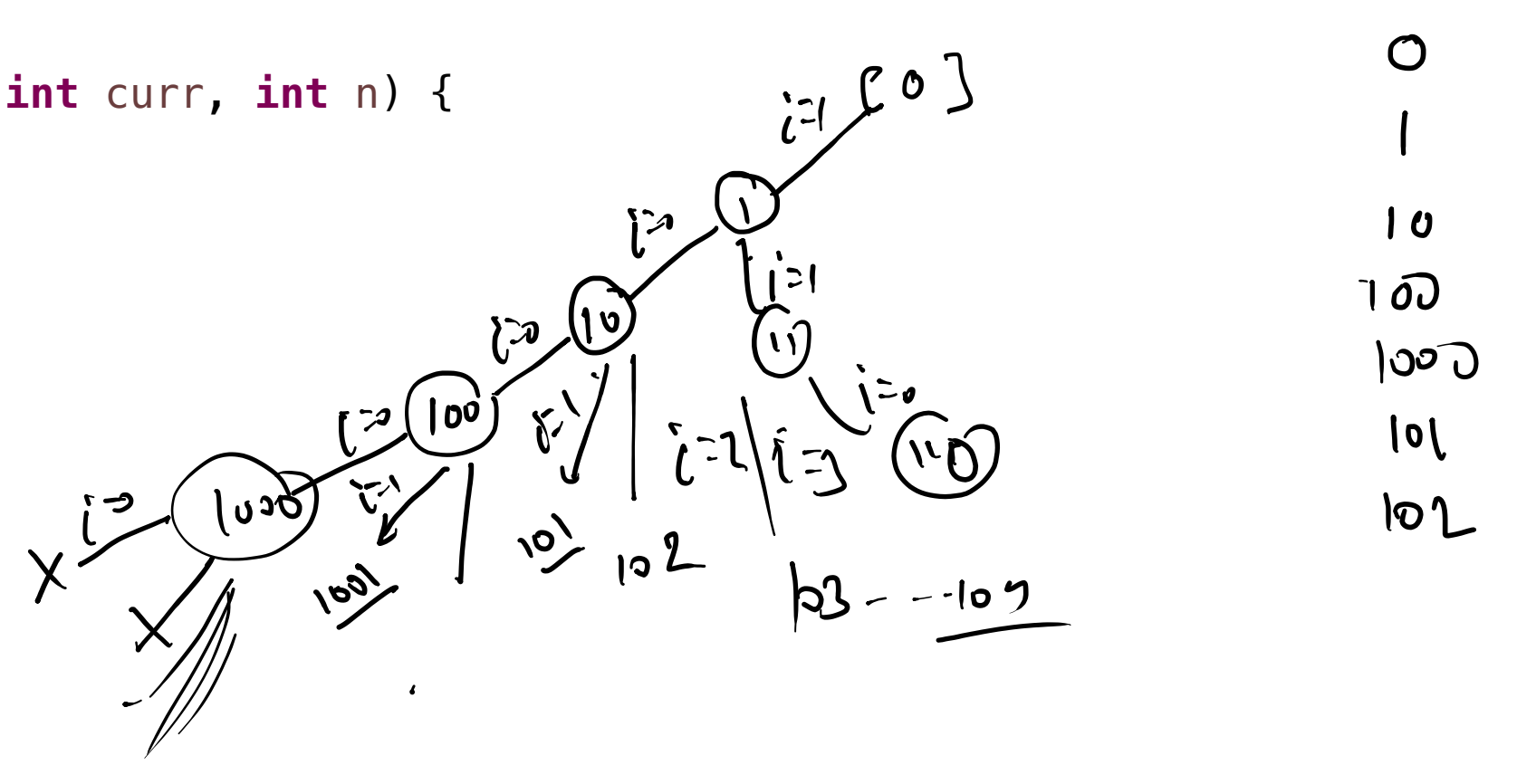




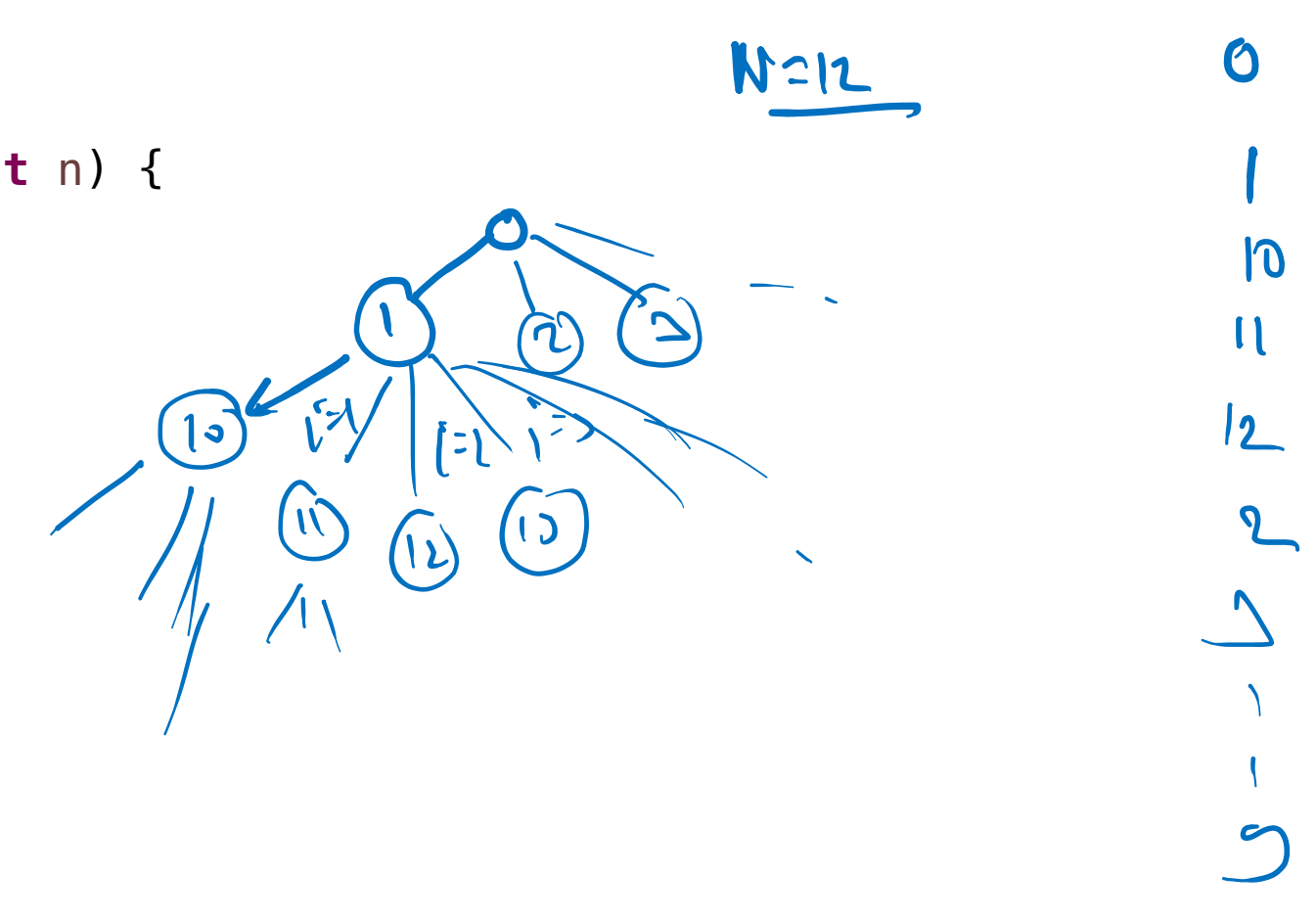


```java
public static void Lexicographical(int curr, int n) {
        if(curr>n) {
            return;
        }
        System.out.println(curr);
        int i = 0;
        if (curr == 0) {
            i = 1;
        }
        for (; i <= 9; i++) {

        }
    }
```



```java
public static void Lexicographical(int curr, int n) {
        if(curr>n) {
            return;
        }
        System.out.println(curr);
        int i = 0;
        if (curr == 0) {
            i = 1;
        }
        for (; i <= 9; i++) {
            Lexicographical(curr*10+i, n);
        }
    }
```



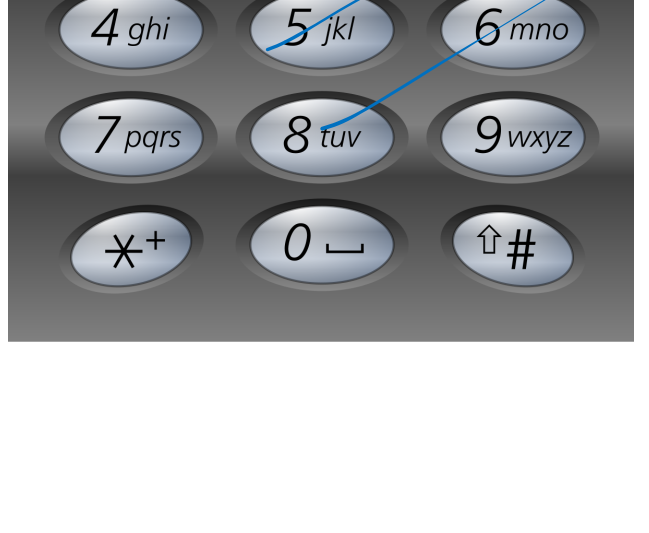
0 x10+i

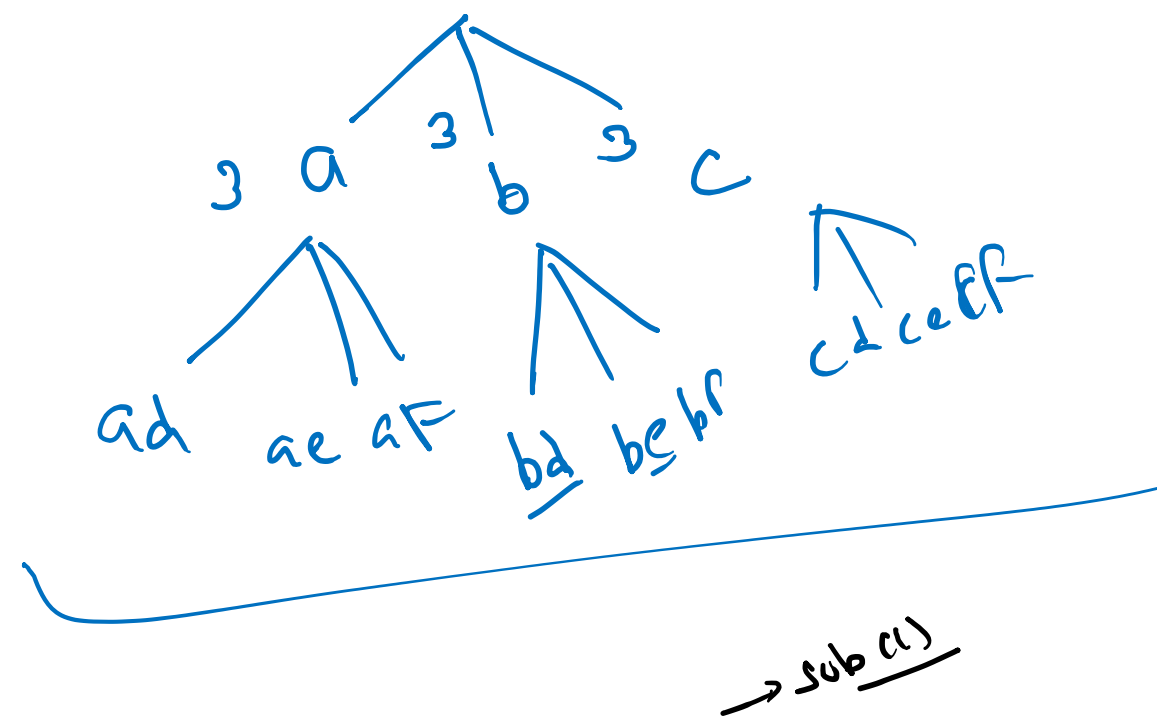
1x10+0=1

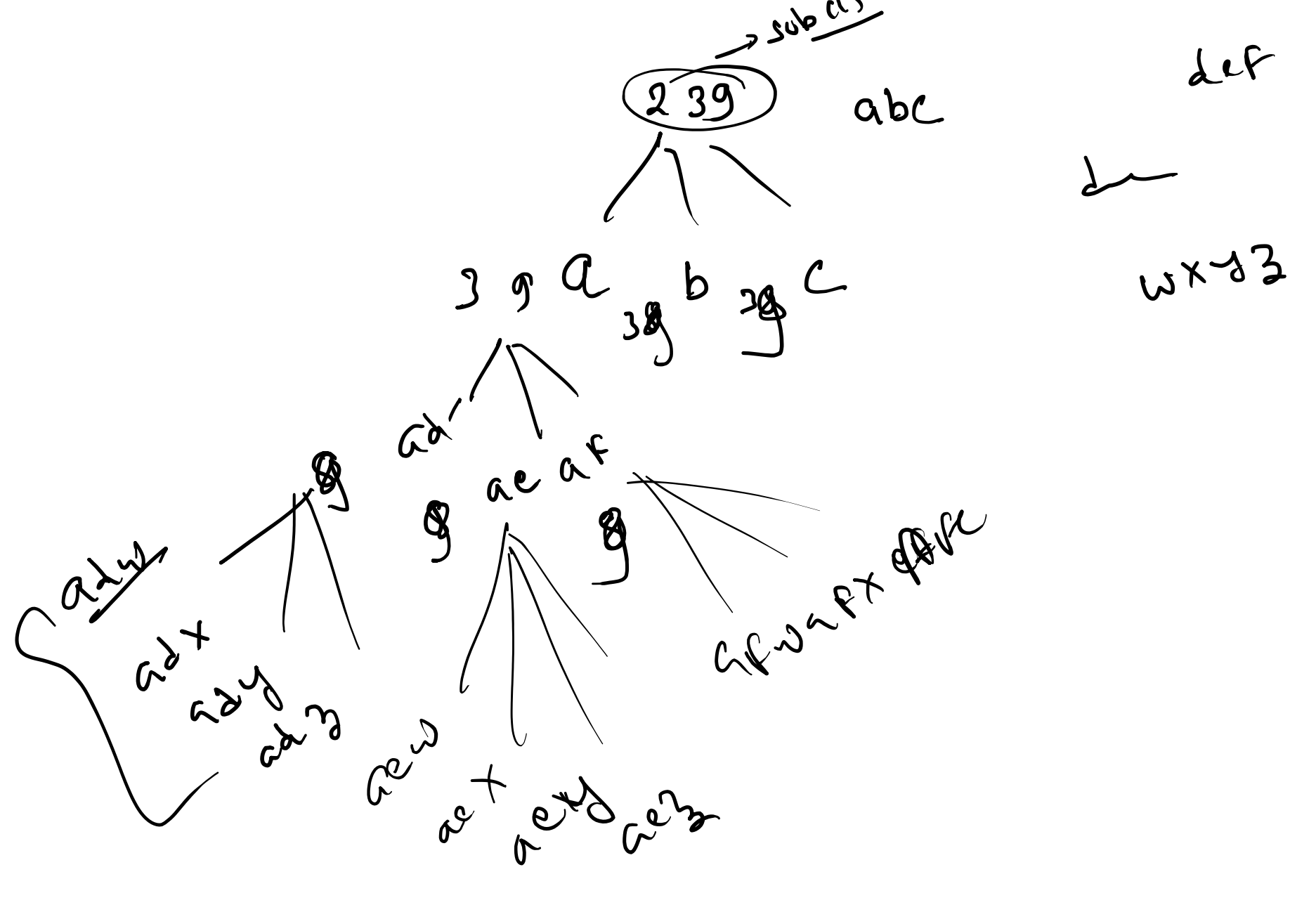
10x10+0=100

1X10+1

1x10+1







```java
public static void Letter_Combinations(String ques, String ans,List<String> ll) {
    if (ques.length() == 0) {
        //System.out.println(ans);
        ll.add(ans);
        return;
    }
    char ch = ques.charAt(0);// '2'
    String press = key[ch - '0'];// abc
    for (int i = 0; i < press.length(); i++) {
        Letter_Combinations(ques.substring(1), ans + press.charAt(i),ll);
    }

}
```

2->abc

3->def