Lec-16

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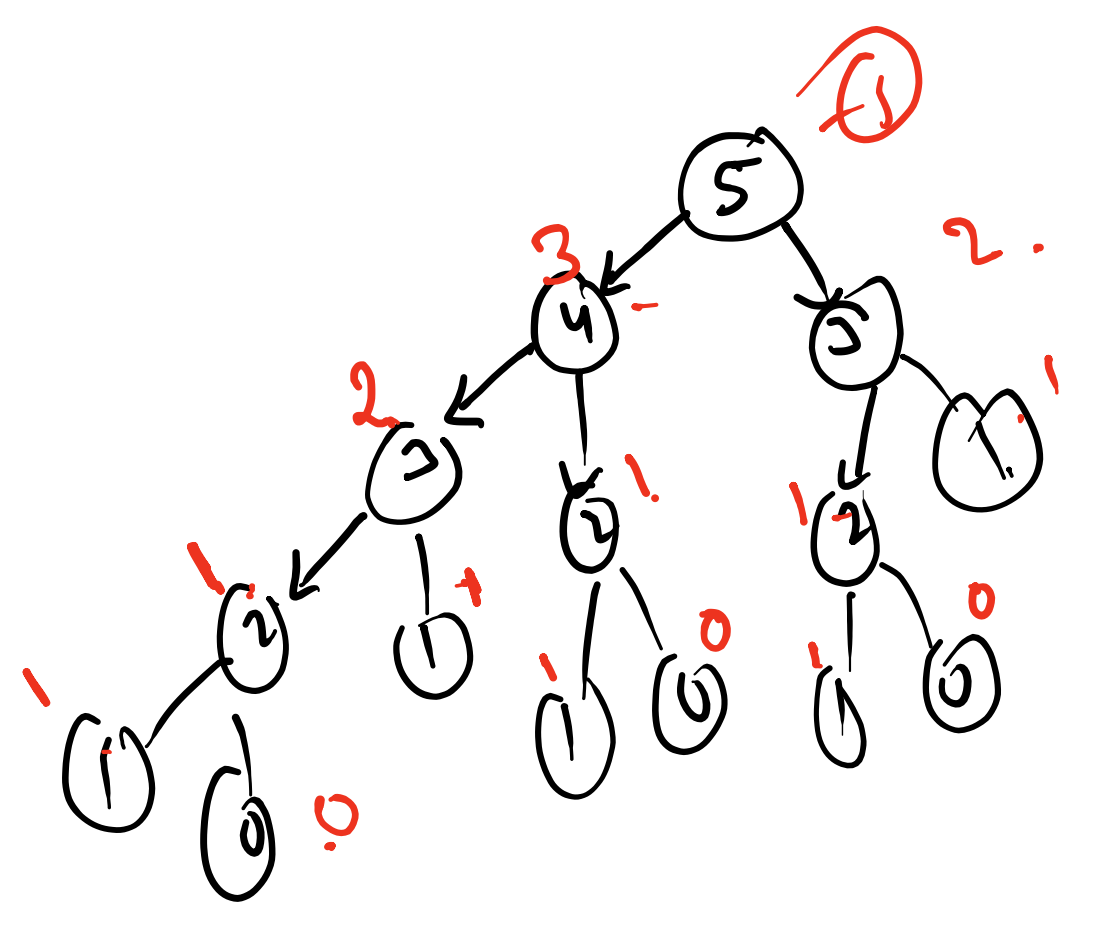
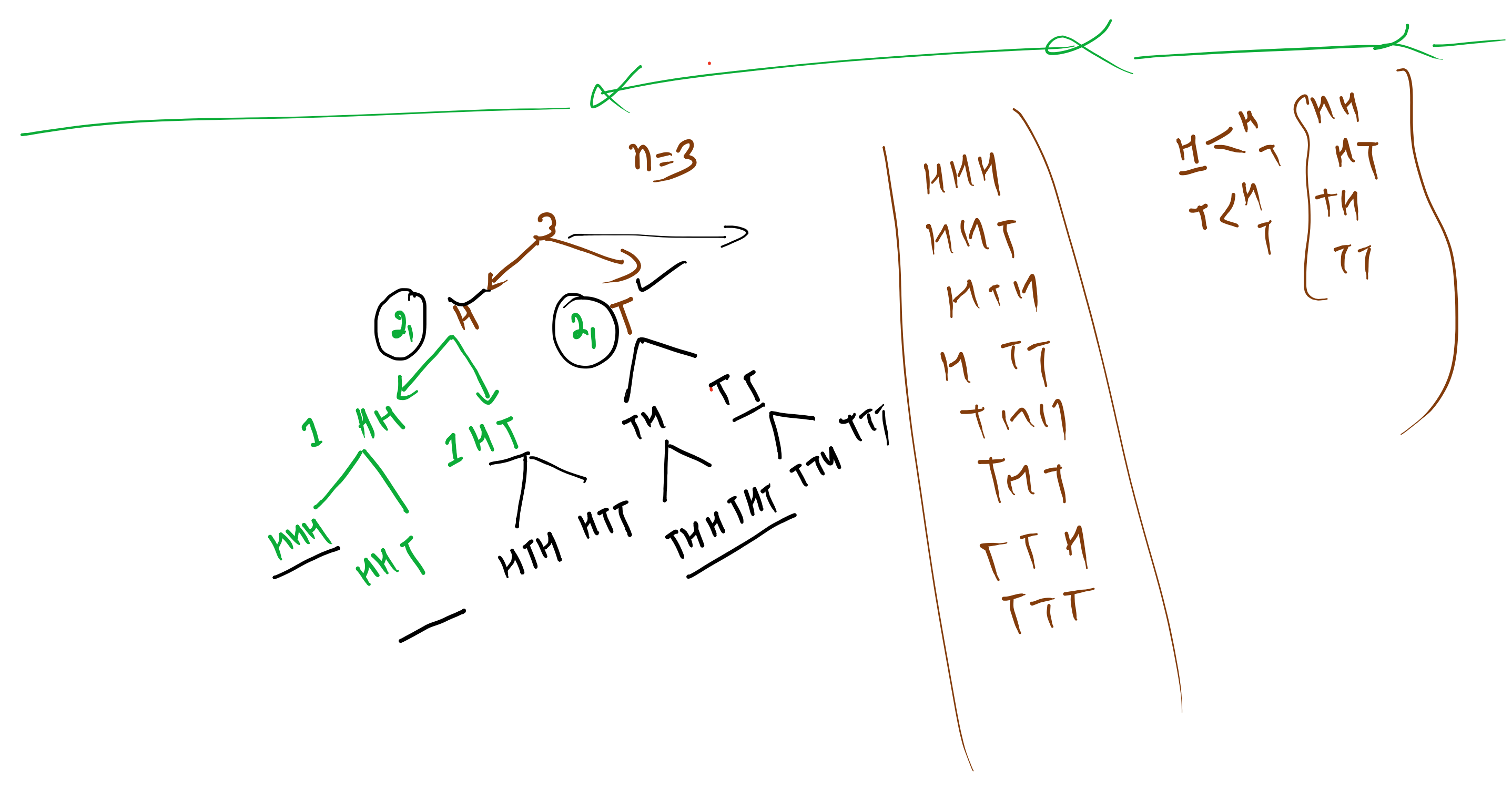
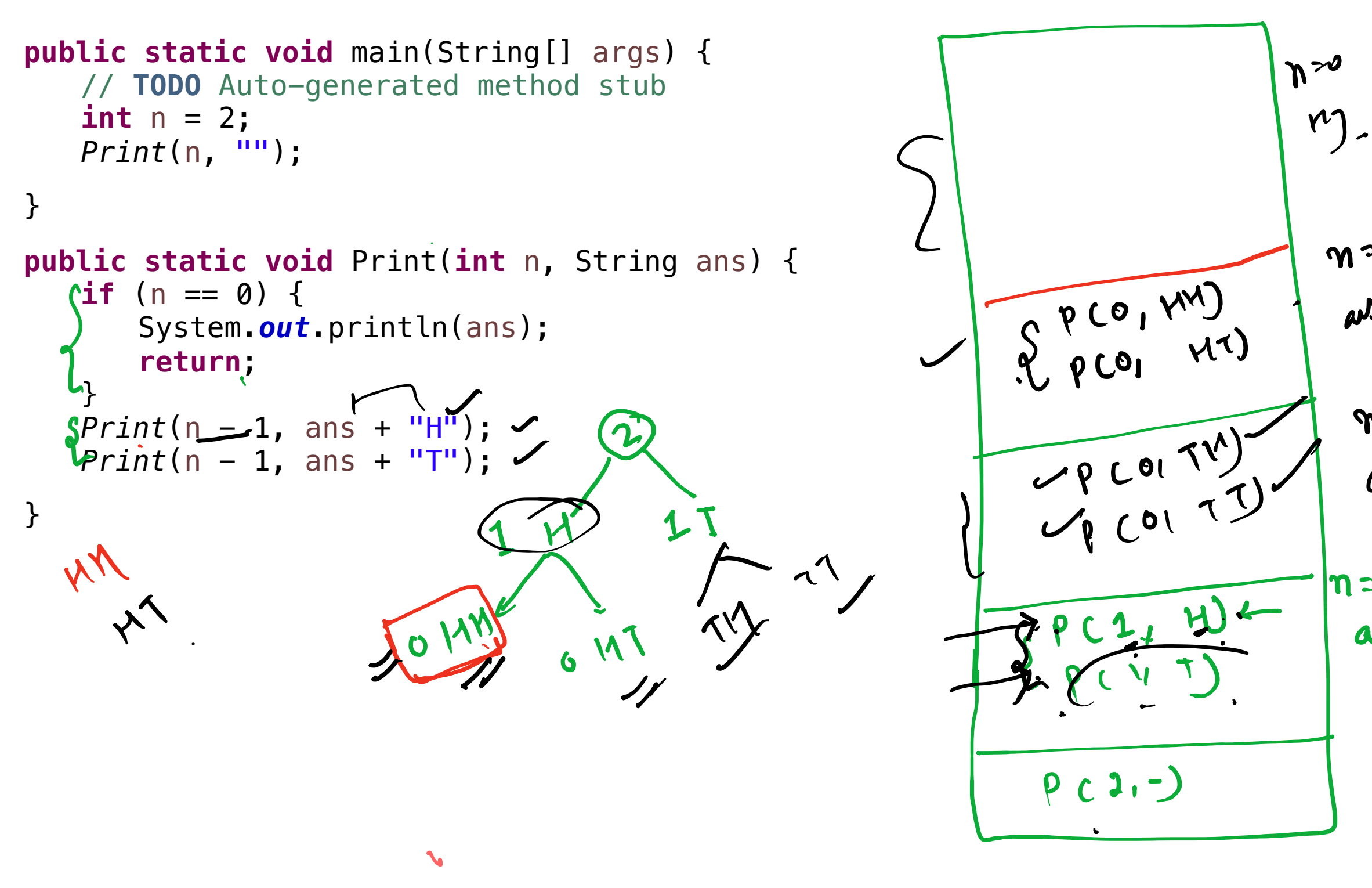
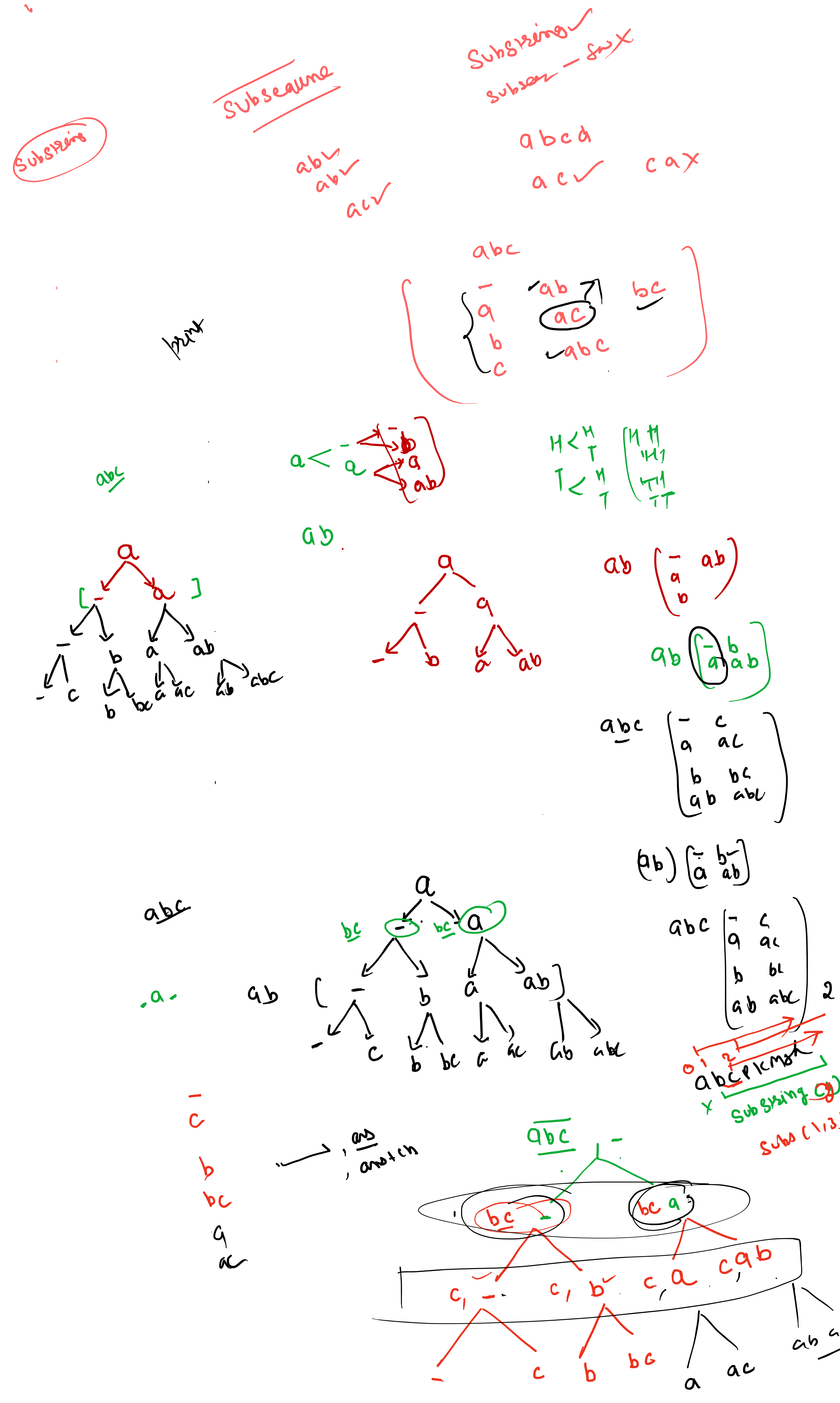
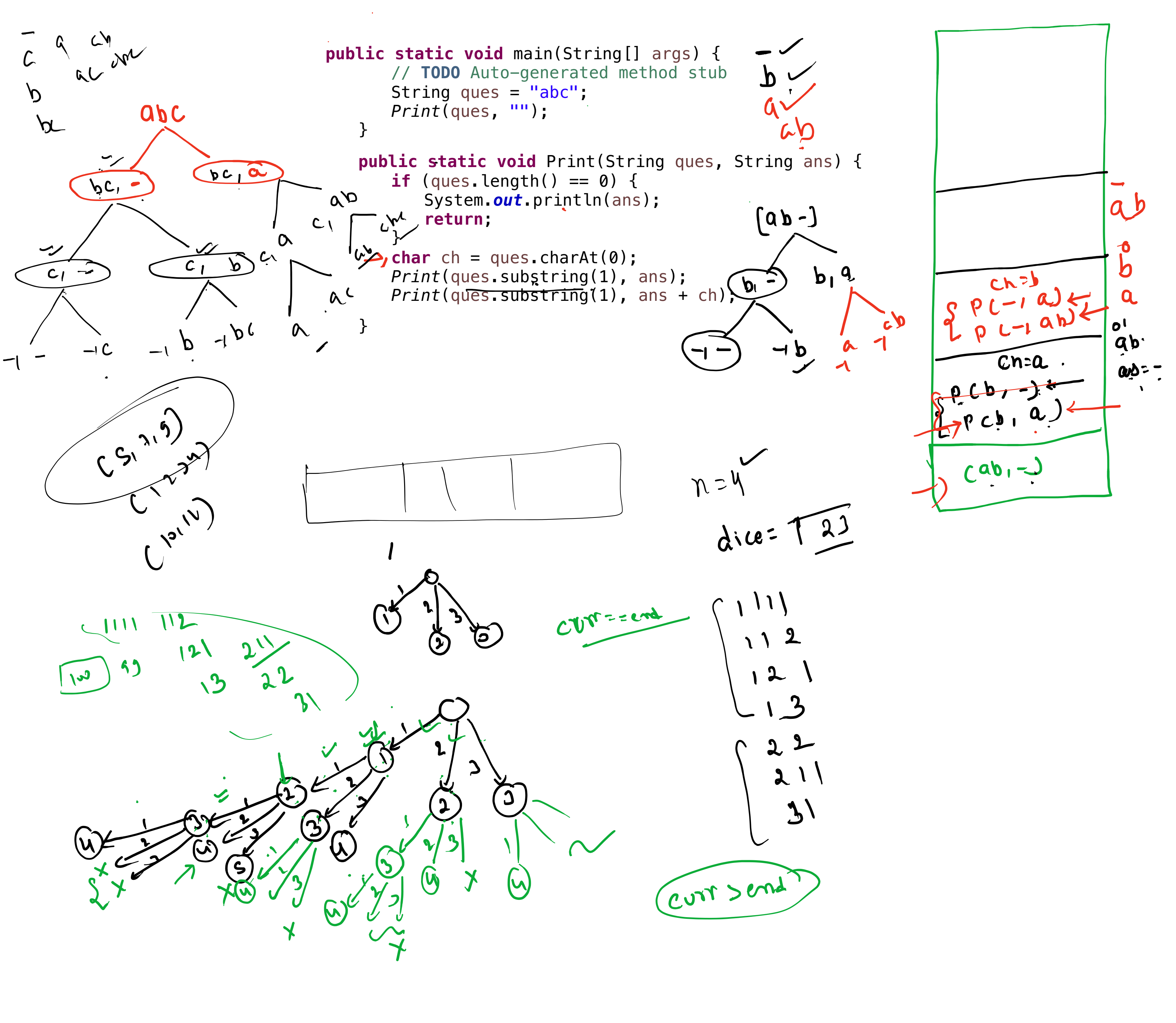




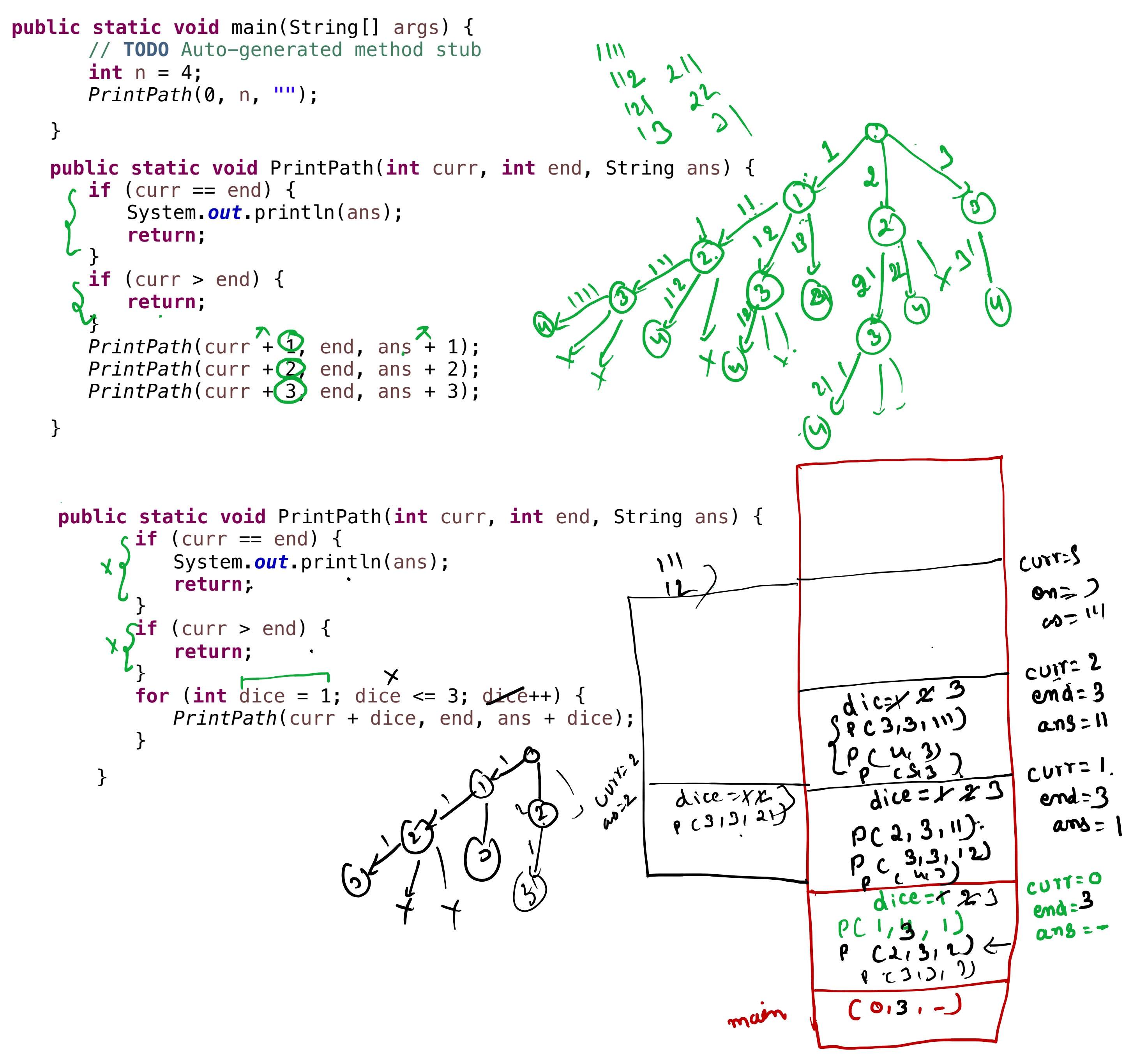


```java
public static void main(String[] args) {
    // TODO Auto-generated method stub
    int n = 2;
    Print(n, "");

}

public static void Print(int n, String ans) {
    if (n == 0) {
        System.out.println(ans);
        return;
    }
    Print(n - 1, ans + "H");
    Print(n - 1, ans + "T");

}
```



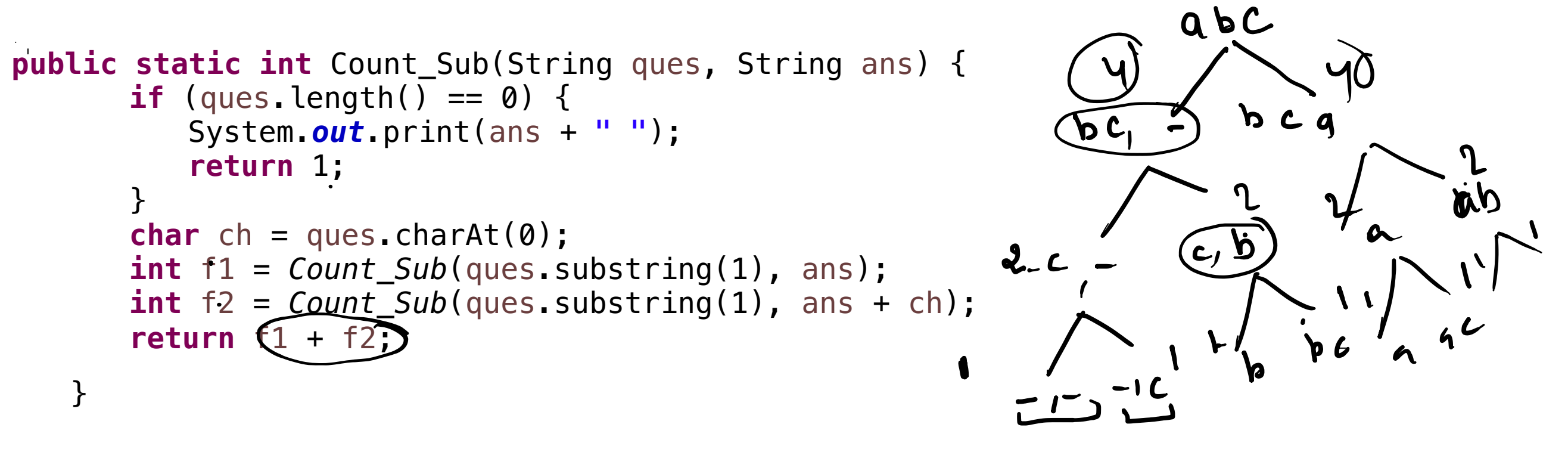


```java
public static void main(String[] args) {
        // TODO Auto-generated method stub
        String ques = "abc";
        Print(ques, "");
    }

    public static void Print(String ques, String ans) {
        if (ques.length() == 0) {
            System.out.println(ans);
            return;
        }
        char ch = ques.charAt(0);
        Print(ques.substring(1), ans);
        Print(ques.substring(1), ans + ch);

    }
```

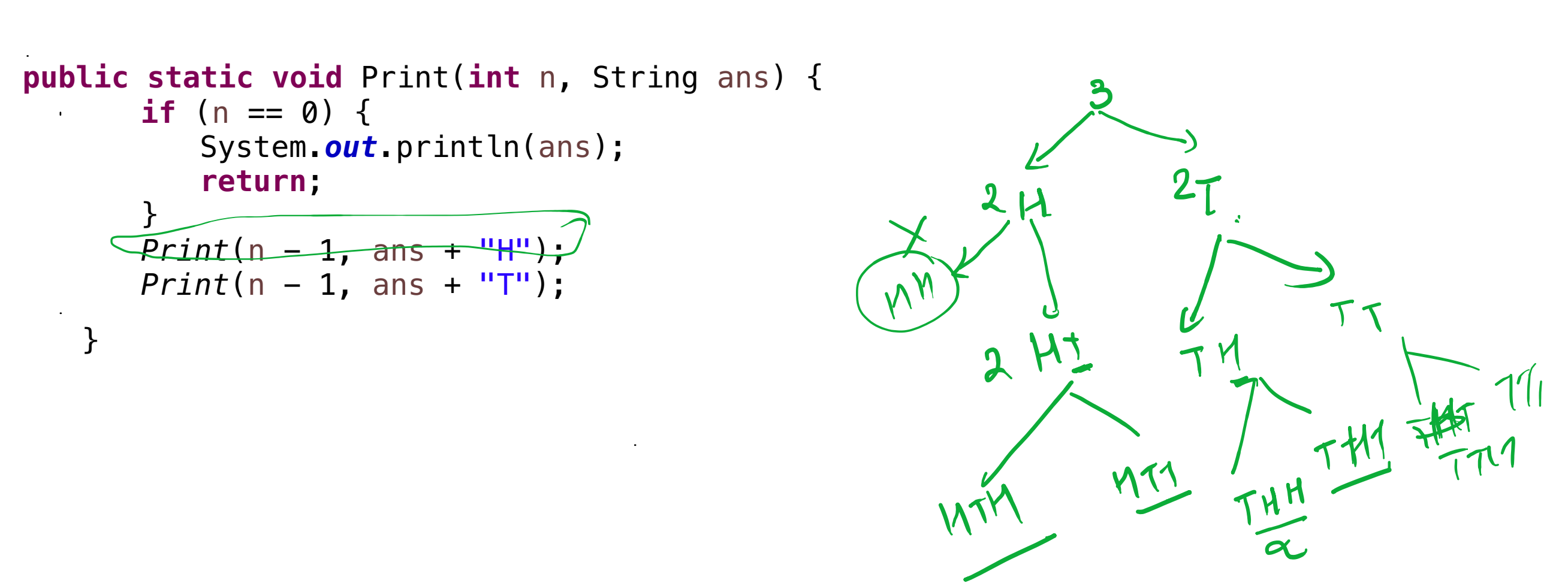


```java
public static void main(String[] args) {
        // TODO Auto-generated method stub
        int n = 4;
        PrintPath(0, n, "");

    }

    public static void PrintPath(int curr, int end, String ans) {
        if (curr == end) {
            System.out.println(ans);
            return;
        }
        if (curr > end) {
            return;
        }
        PrintPath(curr + 1, end, ans + 1);
        PrintPath(curr + 2, end, ans + 2);
        PrintPath(curr + 3, end, ans + 3);

    }
```

```java
public static void PrintPath(int curr, int end, String ans) {
        if (curr == end) {
            System.out.println(ans);
            return;
        }
        if (curr > end) {
            return;
        }
        for (int dice = 1; dice <= 3; dice++) {
            PrintPath(curr + dice, end, ans + dice);
        }

    }
```



```java
public static int Count_Sub(String ques, String ans) {
        if (ques.length() == 0) {
            System.out.print(ans + " ");
            return 1;
        }
        char ch = ques.charAt(0);
        int f1 = Count_Sub(ques.substring(1), ans);
        int f2 = Count_Sub(ques.substring(1), ans + ch);
        return f1 + f2;

    }
```



```java
public static void Print(int n, String ans) {
        if (n == 0) {
            System.out.println(ans);
            return;
        }
        Print(n - 1, ans + "H");
        Print(n - 1, ans + "T");

    }
```