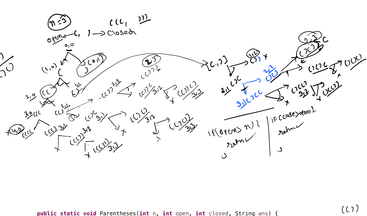
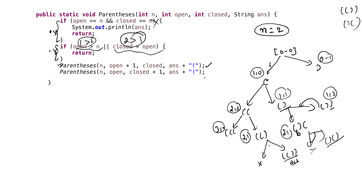
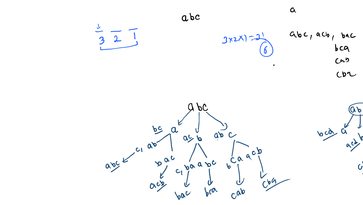
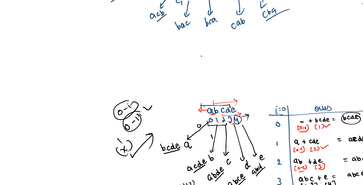
Lec-17

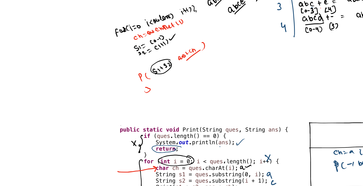




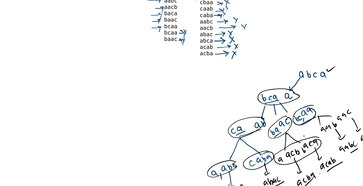
```
public static void Parentheses(int n, int open, int closed, String ans) {
    if (open == n && closed == n){
        System.out.println(ans);
        return;
    }
    if (open > n || closed > open) {
        return;
    }
    Parentheses(n, open + 1, closed, ans + "(");
    Parentheses(n, open, closed + 1, ans + ")");
}
```



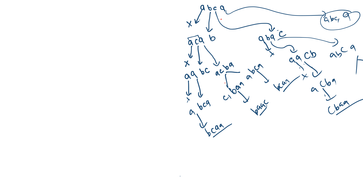


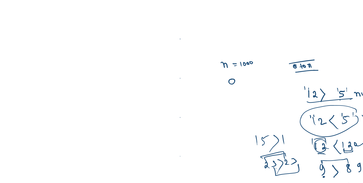


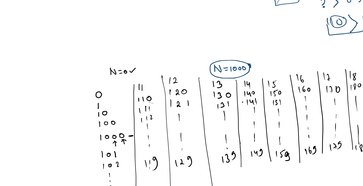
i:0	ans:	ans
0	= + b+a+c = {bcab}	ans+(ans+ch+1)
1	a + cab = abcab	ans+(ans+(ch+1))
2	ab + ac = abcac	ans+c
3	abc + e = abce	ans+a
4	abcd + e = abcd	ans+e

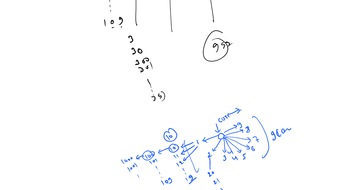


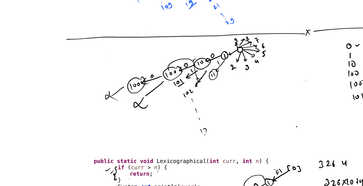
```
public static void Print(String ques, String ans) {
    if (ques.length() == 0) {
        System.out.println(ans);
        return;
    }
    for (int i = 0; i < ques.length(); i++) {
        String s1 = ques.substring(0, i);
        String s2 = ques.substring(i + 1);
        Print(s1 + s2, ans +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

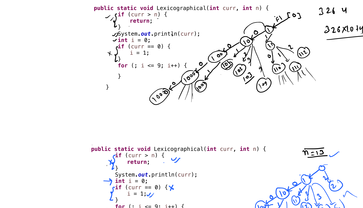


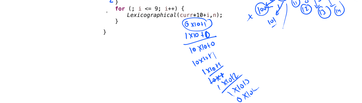













```
public static void Lexicographical(int curr, int n) {
    if (curr > n) {
        return;
    }
    System.out.println(curr);
    int i = 0;
    if (curr == 0) {
        i = 1;
    }
    for (; i <= 9; i++) {
        Lexicographical(curr*10+i,n);
    }
}
```



```
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);
    }
}
```