Lec-27

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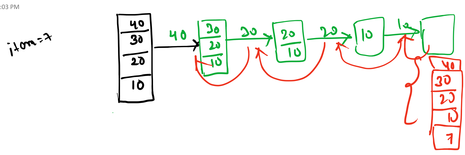
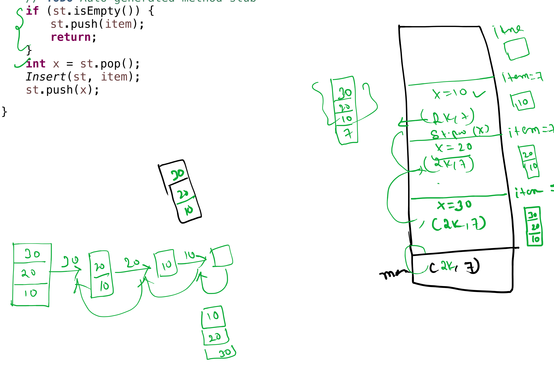


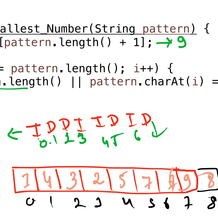
```
private static void Insert(Stack<Integer> st, int item) {
        // TODO Auto-generated method stub
        if (st.isEmpty()) {
            st.push(item);
            return;
        }
        int x = st.pop();
        Insert(st, item);
        st.push(x);

    }
```



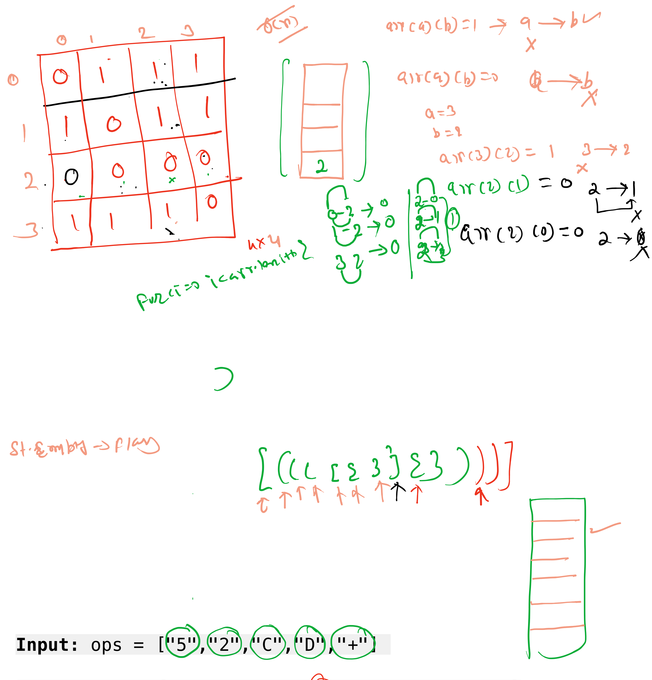

```
public static String smallest_Number(String pattern) {
    int[] ans = new int[pattern.length() + 1];
    int count = 1;
    for (int i = 0; i <= pattern.length(); i++) {
        if (i == pattern.length() || pattern.charAt(i) == 'I') {

        }
    }
}
```



```
public static String smallest_Number(String pattern) {
    int[] ans = new int[pattern.length() + 1];
    int count = 1;
    Stack<Integer> st = new Stack<>();
    for (int i = 0; i <= pattern.length(); i++) {
        if (i == pattern.length() || pattern.charAt(i) == 'I') {
            ans[i] = count++;
            while (!st.isEmpty()) {
                ans[st.pop()] = count++;
            }
        } else {
            st.push(i);// "D"
        }
    }

}
```



Input: ops = ["5","2","C","D","+"]

Input: ops = ["5","-2","4","C","D","9","+","+"]