DSA SERIES

- Learn Coding

Backtracking

On Permutation Based Problem

LETS START TODAY'S LECTURE

46. Permutations

```cpp
class Solution {
public:
    int n ;
    vector<vector<int>> result;
    unordered_set<int> st;

    void solve(vector<int> &temp , vector<int> & nums){
        if(temp.size()==n){
            result.push_back(temp);
            return;
        }

        for(int i =0;i<n;i++){
            if(st.find(nums[i])==st.end()){
                temp.push_back(nums[i]);
                st.insert(nums[i]);

                solve(temp,nums);

                temp.pop_back();
                st.erase(nums[i]);
            }
        }
    }
}
```

```cpp
vector<vector<int>> permute(vector<int>& nums) {

    n = nums.size();
    vector<int> temp ;
    solve(temp ,nums);

    return result;

}
};
```

Learn coding

THANK YOU