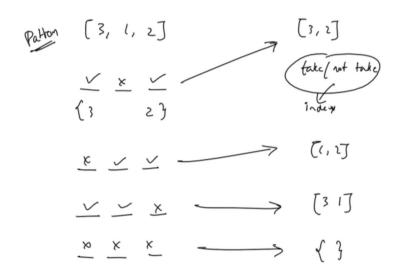
Printing all Sub sequences a contigous Inon-contigous sequences which follows the order.

* A subaway can be subsequences.



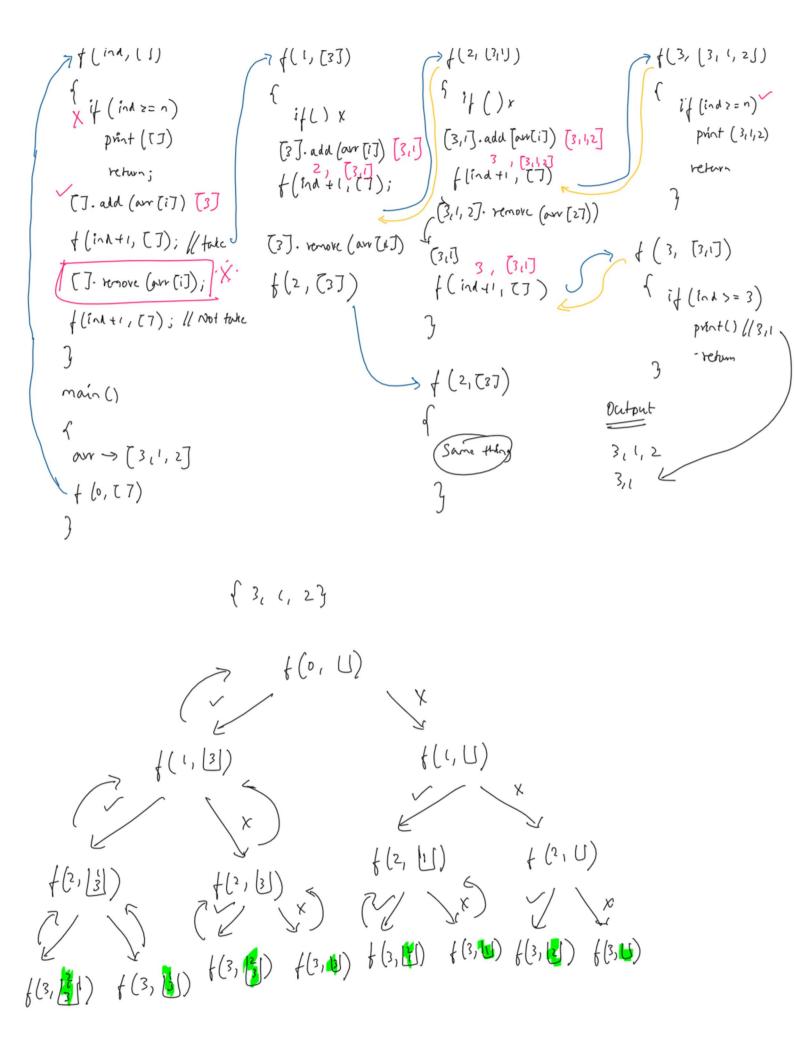
Structure of Gode/Patter:

Our => [], [], []

3,1,-
$$\times$$
 [3,1]

A (ind, [7)

A ([1,[3])



```
( 2 )

3 ( 2 )

3 ( 4)

2 3

4 4 4 d3

= 8 (subsequence)
```

```
#include <bits/stdc++.h>
using namespace std;
void printF(int ind, vector<int> &ds, int arr[], int n){
    if(ind == n){
        for (auto it: ds){
            cout << end1;
            return;
        }
        // take or pick the particular index into the subsequences
    ds.push_back(arr[ind]);
    printF(ind+1, ds, arr, n);
    ds.pop_back();

    // not pick, or not take condition, this element is not added
    // to your subseq
    printF(ind+1, ds, arr, n);
}
int main(){
    int arr[] = {3, 1, 2};
    int n = 3;
    vector<int> ds;
    printF(ø, ds, arr, n);
    return 0;
}
```

$$T: C \Rightarrow O(2^{n})$$

$$S: C \Rightarrow O(n)$$