#include <bits/stdc++.h>

using namespace std;

void printArray(vector<int> arr, int n)

{

    for (int i = 0; i < n; i++)

        cout << arr[i] << " ";

    cout << endl;

}

// Recursive function to print all

// possible subsequences for given array

void printSubsequences(vector<int> arr, int index,

                       vector<int> subarr)

{

    // Print the subsequence when reach

    // the leaf of recursion tree

    if (index == arr.size())

    {

        int l = subarr.size();

        // Condition to avoid printing

        // empty subsequence

        if (l != 0)

            printArray(subarr, l);

    }

    else

    {

        // Subsequence without including

        // the element at current index

        printSubsequences(arr, index + 1, subarr);

        subarr.push\_back(arr[index]);

        // Subsequence including the element

        // at current index

        printSubsequences(arr, index + 1, subarr);

    }

    return;

}

// Driver Code

int main()

{

    vector<int> arr{1, 2, 3};

    vector<int> b;

    printSubsequences(arr, 0, b);

    return 0;

}