

```
import java.io.IOException;

import java.io.PrintWriter;

import java.util.ArrayList;

import java.util.Map;

import java.util.Scanner;

import java.util.TreeMap;


public class Day86 {

    public static void main(String[] args) throws IOException {

        Scanner in = new Scanner(System.in);

        PrintWriter out = new PrintWriter(System.out);

        int t = in.nextInt();


        while (t-- > 0) {

            int n = in.nextInt();

            Map<Integer, Integer> subsets = new TreeMap<>();


            for (int i = 0; i < 1 << n; i++) {

                int s = in.nextInt();

                Integer prev = subsets.get(s);

                if (prev == null)

                    prev = 0;


                subsets.put(s, prev + 1);

            }


            subsets.remove(0);

            ArrayList<Integer> nums = new ArrayList<>();


            for (int i = 0; i < n; i++) {
```

```

nums.add(subsets.keySet().iterator().next());

for (int mask = 1 << (nums.size() - 1); mask < 1 << nums.size(); mask++) {
    int s = 0;

    for (int j = 0; j <= i; j++)
        if ((mask & (1 << j)) > 0)
            s += nums.get(j);

    Integer cnt = subsets.get(s);

    if (cnt == 1)
        subsets.remove(s);
    else
        subsets.put(s, cnt - 1);
    }
}

for (int i = 0; i < n; i++)
    out.print(nums.get(i) + " ");

out.println();
}

in.close();
out.close();
}
}

```