Day 86 coding Statement:

Solution:

```java
import java.util.TreeMap;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.ArrayList;

import java.util.Map;

import java.util.Scanner;

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<Integer, Integer>();

        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<Integer>();

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

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

```java
        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();
  }
}
```