**Problem:**

In an alternate universe, Groot’s lifespan is 3 days. There are n Groots on the first day with ages a1, a2, … an. A Groot reproduces 2 Groots each day. Help Peter Quill to find number of Groots after one earth week.

**Input:**

The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.

The first line of each test case contains n.

The second line contains n space separated integers denoting the age of the respective Groots.

**Output:**

For each test case, print a single line containing one integer – Number of Groots after 1 earth week.

**Constraints:**

1 ≤ T ≤ 100

1 ≤ n ≤ 30

1 ≤ aj ≤ 3 (for every 1 ≤ j ≤ n)

**Explanation:**

**Example 1:**

Day 1: There is one Groot of age one

Day 2: The Groot reproduces 2 Groots of age one, so there are 3 Groots

Day 3: All 3 Groots reproduce 6 Groots of age one, now there are 9 Groots

Day 4: Groot with age three dies, now there are 24 Groots

Day 7: Similarly on the final day there will be 492 Groots