Input

Input contains multiple number of test cases. The first line contain the number of test cases t (t < 3000). Each of the next line contains one test case. Each test case starts with n ($1 \le n \le 4$) the number of different color. Next contains n integers. The *i*'th integer denotes the number of marble of color i. The number of marbles of any color is within the range 0..7 (inclusive). The color of the marbles are numbered from 1 to n.

Output

For each test case output contains one integer in one line denoting the number of ways you can arrange the marbles.

Sample Input

Sample Output