11125 Arrange Some Marbles

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

4 2 3 4 5

Sample Output