

D. TONTON AND TRIANGLE

Time limit: 1s | Memory limit: 512MB
Input stream: stdin | Output stream: stdout

The question “how many triangles are in a picture” is not easy to answer for Tonton Friends. Today, Yuta has drawn a picture, which contains a number of triangles, (see the picture below) in order to challenge his little sweetie Bella. However, it is such boring if there is only one picture, so that Yuta wants to remove from the original picture some edges among AB, AC and BC. Obviously, the number of triangle is not small, Yuta needs your help to calculate the number of triangles after remove these edges before giving the problem to Bella.

Your task is to count the number of triangles after removing some edges among AB, AC and BC.

Input

- The first line contains one integer n - the number of edges which are removed ($0 \leq n \leq 3$)
- The second line contains n integers corresponds to AB/AC/BC. 1 is for edge AB, 2 is for edge AC, and 3 is for edge BC.

Output

- Write in one line the number of triangles.

Sample

Input	Output
1	35
1	

