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991 - Safe Salutations

Time limit: 3.000 seconds



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Stat

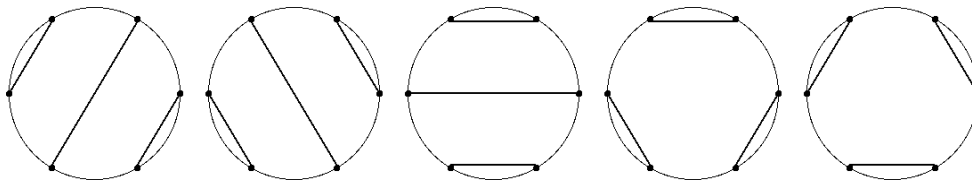
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Safe Salutations

Problem

As any minimally superstitious person knows all too well, terrible things will happen when four persons do a crossed handshake.

You, an intrepid computer scientist, are given the task of easing the burden of these people by providing them with the feasible set of handshakes that include everyone in the group while avoiding any such crossings. The following figure illustrates the case for 3 pairs of persons:



Input

The input to this problem contains several datasets separated by a blank line. Each dataset is simply an integer n , the number of **pairs** of people in the group, with $1 \leq n \leq 10$.

Output

