12:47 21/12/24 CSES - Two Knights





CSES Problem Set

Two Knights

TASK | STATISTICS

Time limit: 1.00 s **Memory limit:** 512 MB

Your task is to count for $k=1,2,\ldots,n$ the number of ways two knights can be placed on a $k\times k$ chessboard so that they do not attack each other.

Input

The only input line contains an integer n.

Output

Print n integers: the results.

Constraints

• $1 \le n \le 10000$

Example

Input:

8

Output:

a

6

28

96 252

550

1056

1848

Introductory Problems

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Increasing Array

Permutations
Number Spiral

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Two Knights

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Two Sets

Bit Strings

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Trailing Zeros

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Coin Piles

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