J. Sequence strikes back! (16 Mb, 1 sec)

Hacker Kirill once saw two numeric sequences written on a fence: 8, 9, 10, 11 and 4, 3, 2, 1. While examining the numbers he noticed that each number from the first sequence is divisible by a corresponding number from the second one: 8 is divisible by 4, 9 is divisible by 3 and so on. Having found this interesting fact, Kirill went on to look for a sequence of nonnegative numbers X, X+1, ..., X+N-1, such that X would be divisible by N, X+1 would be divisible by N-1, ..., X+N-1 would be divisible by 1, with the smallest possible X.
Help Kirill and write a program to find X for given N.

Limitations

1 <= N <= 40

Input

The first line of the input file contains a single integer N.

Output

The output file should contain a single number, X.

Sample Input	Sample Output
4	8

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