

CODEFORCES Sponsored by TON

PROBLEMSET GROUPS RATING EDU API CALENDAR HELP HOME TOP CATALOG CONTESTS GYM

STANDINGS CUSTOM INVOCATION **PROBLEMS** SUBMIT CODE MY SUBMISSIONS STATUS

C. Lucky Numbers

time limit per test: 0.5 seconds memory limit per test: 64 megabytes input: standard input output: standard output

The numbers of all offices in the new building of the Tax Office of IT City will have lucky numbers.

Lucky number is a number that consists of digits 7 and 8 only. Find the maximum number of offices in the new building of the Tax Office given that a door-plate can hold a number not longer than n digits.

Input

The only line of input contains one integer n ($1 \le n \le 55$) — the maximum length of a number that a door-plate can

Output

Output one integer — the maximum number of offices, than can have unique lucky numbers not longer than ndigits.

Examples



Experimental Educational Round: VolBIT Formulas Blitz

Finished

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit? Language: GNU G++20 13.2 (64 bit, win **✓** Choose Choose File No file chosen file: Submit

ightarrow Last submissions		
Submission	Time	Verdict
258821225	Apr/30/2024 09:42	Accepted



