## MMO85

This is one of the hardest problems of Moskow Mathematical Olympiad 1985
Prove that if $n$ is a natural number equal or greater than 3 , then there exist two odd natural numbers $x$ and $y$ such that $2^{n}=7 x^{2}+y^{2}$.

Create a program to find the value of $x$ and $y$ for a given $n$.
Input
A line contains a natural number $\mathrm{n}(3 \leq \mathrm{n} \leq 62)$

## Output

A single line contains $x$ and $y$, separated by a single space. Write any pair of $x$ and $y$ if you find more than one answer.

## Example

Input:
3

## Output:

11

