Problem J. Murder in Sepahan Shahr

There has been a murder in the town and the police have arrested n people as suspects. None of them will confess to his crimes or accuse another, so the case is still open. The police have now decided to use a modern method to solve the case. They arrange a meeting and make all the suspects sit around a round table, giving each one a number from 1 to n in sequence. The Police announce that they have a certain time to reveal the criminal.

If the criminal is not revealed within the given time, the police will start from suspect 5, revolve around the table clockwise and remove each 5th suspect. The last suspect remaining behind the table will be framed as the murderer and executed.

Considering that none of the suspects will reveal anything, which one will be executed?

Input

The input has only one line which contains an integer n. ($5 \leq n \leq 10^6$)

Output

Print the number of person that should be executed.

Examples

test	answer
8	3

Note

The order of suspects removing is 5, 2, 8, 7, 1, 4, 6. Suspect number 3 is the last remaining one and will be executed.