Lagged Fibo Sequence

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1 Problem Statement

You are give a series such that $F[n] = F[n - 100] + F[n - 99]$ if $n \geq 100$ and $F[n] = n$ if $0 \leq n \leq 99$

2 Constraints

1. $0 \leq n \leq 10^{18}$

3 Input Format

n

example:
100

4 Output Format

$F[n]$

example:
1

5 Explanation

$F[100] = F[0] + F[1] = 0 + 1 = 1$