Problem C: Nidoran Explosion



Reggie is a Pokemon breeder who specializes in breeding Nidorans. Reggie starts with two Nidorans that are just born. Every pair of Nidorans that Reggie has that begins a year at 3 years of age or more is able to produce an offspring Nidoran each year.

Reggie wants to be able to predict how many Nidorans he will have after a given number of years. He has asked you to write a program that will take in a number, N, and compute how many Nidorans there will be after N years. You can assume that no Nidorans will die.

Input

Input will be a single integer, the number of years.

Output

Output should be of the form “There will be <number> Nidorans after <N> years.”

Sample Input

```
17
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Sample Output

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There will be 51 Nidorans after 17 years.
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