0110SS

Dor is IWGolymp student so he has to count in how many ways he can make N digit numbers that is formed by ones and zeroes.But zeroes can not be next to each other .Help to him in how many differnt numbers can he make .

ex:3

101,010,111,110,011

Input

A number N   N<=70

Output

Answer for the problem

Example

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Input:

2

Output:

3
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