Quiz Section for Program Design (I)

Exercise #9

You are texting a person you have a crush on. It takes n messages to complete a conversation. Every time, you can only send 1 or 2 messages and wait for a reply to get a smooth conversation.

In how many ways can you send n messages to your crush?

- **Input Format**
  An integer n represents how many messages you want to send.

- **Output Format**
  An integer represents the number of ways you can text your crush.

- **Technical Specifications**
  - $1 \leq n \leq 45$

The table below shows the example input and output.

Input	Output
2	2
3	3
10	89

For $n = 2$, there are two ways to send the messages:
1. 1 message + 1 message
2. 2 massages

For $n = 3$, there are three ways to send the messages:
1. 1 message + 1 message + 1 message
2. 1 message + 2 messages
3. 2 massages + 1 messages