

Odd Jobonacci

Jojo is a genius in mathematics especially in numerical sequence. He also created his own series, "Jobonacci". Jobonacci is a series which adds the numbers before and 2 numbers before it to make a number (jobonacci[n] = jobonacci[n-1] + jobonacci[n-2]), but if n is an odd number, then jobonacci [n] = 1.

You are a friend of Jojo, who is making guesses about the Jobonacci series, because you don't want to lose from him, then you will create a program so that you can answer Jojo's questions quickly.

You are encouraged to use recursive techniques to solve this problem...

Format Input

Input consists of 1 integer N, Jojo's question about the Jobonacci series.

Format Output

Output a single line containing the N^{th} Jobonacci numbers.

Constraints

• $1 \le N \le 25$

Sample Input (standard input)

6

Sample Output (standard output)

3

Note

Assume that jobonacci[0] = 0, jobonacci[1] = 1, jobonacci[2] = 1, jobonacci[3] = 1.

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Jojo adalah seorang yang sangat jenius dalam matematika. Khususnya dalam bidang deret angka. Ia pun menciptakan deret nya sendiri yaitu "Jobonacci". Jobonacci adalah deret yang menjumlahkan angka sebelum dan 2 angka sebelum nya untuk membuat suatu angka (jobonacci[n] = jobonacci[n-1] + jobonacci[n-2]), tetapi apabila n merupakan bilangan ganjil, maka jobonacci[n] = 1.

Anda adalah teman dari Jojo, yang sedang melakukan tebak-tebakan mengenai deret Jobonacci tersebut, karena anda tidak ingin kalah dari Jojo, maka anda akan membuat program agar dapat menjawab pertanyaan Jojo dengan cepat.

Anda disarankan untuk menggunakan teknik rekursif untuk menyelesaikan masalah ini.

Format Input

Input terdiri dari 1 buah integer N - pertanyaan Jojo mengenai deret Jobonaccinya.

Format Output

Output yang dikeluarkan berupa angka Jobonacci ke N.

Constraints

• $1 \le N \le 25$

Sample Input (standard input)

6

Sample Output (standard output)

3

Note

Asumsikan bahwa jobonacci[0] = 0, jobonacci[1] = 1, jobonacci[2] = 1, jobonacci[3] = 1;

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