

# Building Pyramid

After 3 years of university, Beo is still FA. So Beo decide to find a girlfriend before graduation. Beo knew that the first impression was very important. Therefore, Beo wants to have an impressive performance in the first meeting with a beautiful girl. Because of upcoming chirstmas, he want to build a pyramid to replace the Christmas tree:

- The top of the pyramid contains one brick.
- 2nd layer has  $1 + 2 = 3$  bricks.
- 3rd layer has  $1 + 2 + 3 = 6$  bricksh.
- ....
- nth layer has  $1 + 2 + \dots + n$  bricks.

Given the number of bricks Beo has, calculate the maximum number of layers Beo can build.

## Input

The first line contains the number  $n$  ( $1 \leq n \leq 10,000$ ) which is the number of bricks

## Output

The maximum number of layers that can be build

## Example

**Input:**

1

**Output:**

1

**Input:**

25

**Output:**

4