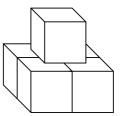
# Jutge.org

The Virtual Learning Environment for Computer Programming

## Sand Castle

#### X36488\_en

One of Roger's favorite activities at the beach is building sand castles. Roger has a bucket that he can fill with wet sand and turn upside down to form a sand block. However, since the sand is slippery, the sand block will fall down unless it is placed on the beach itself, or on top of four stable blocks (as shown in the figure). Today Roger wants to build a sand castle that is as high as possible. Can you help him?



#### Input

A sequence of integers  $0 \le N \le 10^9$ , denoting the number of sand blocks that Roger has available to build his castle.

### Output

For each input, a single line with an integer denoting the highest castle that Roger can build using that amount of sand blocks.

Samp	le	input	
p -			

	• ····· · ·
0	0
1	1
3	1
5	2
10	2
15	3
30	4
50	4
100	б
100000000	1441

#### **Problem information**

Author : Anders Jonsson Generation : 2013-09-02 15:55:43

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#### Sample output