Viral Advertising ★

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X

Your Viral Advertising submission got 15.00 points.

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Problem

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 $Hacker Land\ Enterprise\ is\ adopting\ a\ new\ viral\ advertising\ strategy.\ When\ they\ launch\ a\ new\ product,\ they\ advertise\ it\ to\ exactly\ {\bf 5}\ people\ on\ social\ media.$

On the first day, half of those **5** people (i.e., $floor(\frac{5}{2}) = 2$) like the advertisement and each shares it with **3** of their friends. At the beginning of the second day, $floor(\frac{5}{2}) \times 3 = 2 \times 3 = 6$ people receive the advertisement.

Each day, $floor(\frac{recipients}{2})$ of the recipients like the advertisement and will share it with 3 friends on the following day. Assuming nobody receives the advertisement twice, determine how many people have liked the ad by the end of a given day, beginning with launch day as day 1.

Example

n = 5.

Day	Shared	Liked	Cumulativ
1	5	2	2
2	6	3	5
3	9	4	9
4	12	6	15
5	18	9	24

The progression is shown above. The cumulative number of likes on the ${\bf 5}^{th}$ day is ${\bf 24}$.

Function Description

Complete the viralAdvertising function in the editor below.

viralAdvertising has the following parameter(s):

• int n: the day number to report

Returns

• int: the cumulative likes at that day

Input Format

A single integer, \boldsymbol{n} , the day number.

Constraints

• $1 \le n \le 50$

Sample Input

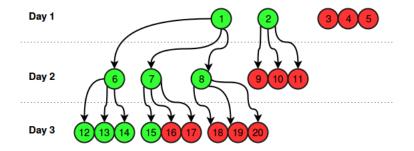
3

Sample Output

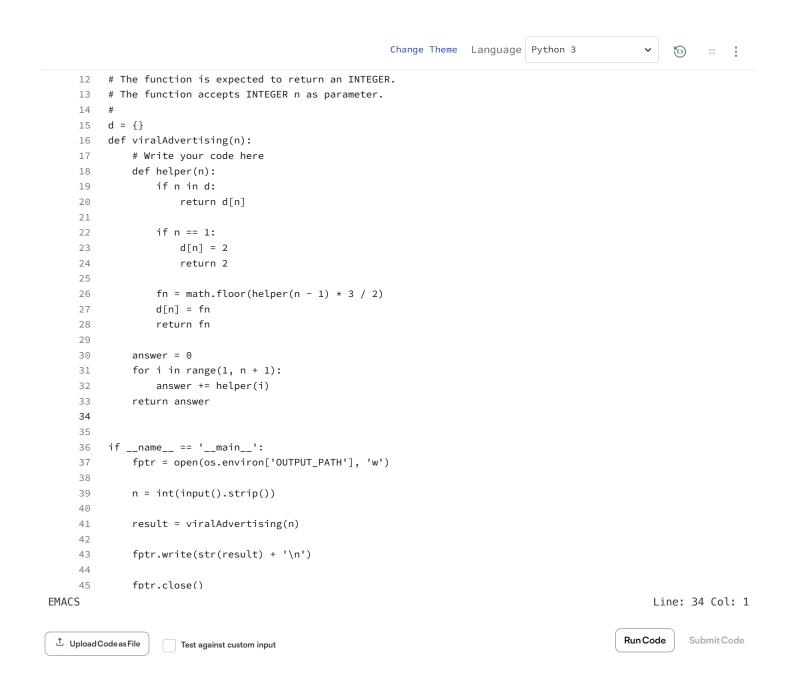
9

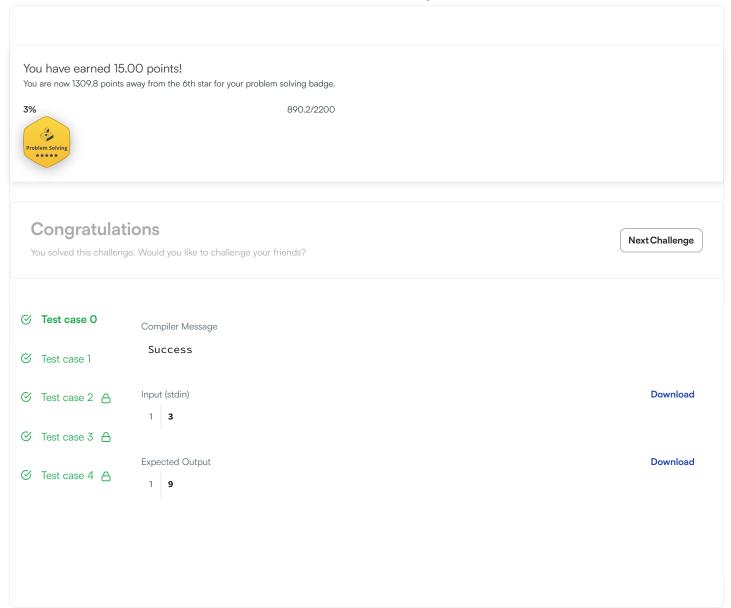
Explanation

This example is depicted in the following diagram:



2 people liked the advertisement on the first day, 3 people liked the advertisement on the second day and 4 people liked the advertisement on the third day, so the answer is 2 + 3 + 4 = 9.





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