# Problem: Viral Advertising

**Sample Input**

3

**Sample Output**

9

Program:

import math

n = int(input())

shared = 5

liked = 0

cumulative = 0

sum1 = 0

for i in range(n):

    # shared = n

    liked = math.floor(shared/2)

    cumulative = cumulative + liked

    shared = liked \* 3

print(cumulative)