

Geometric Sum

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Given k, find the geometric sum i.e.

$$1 + 1/2 + 1/4 + 1/8 + \dots + 1/(2^k)$$

using recursion.

Input format :

Integer k

Output format :

Geometric sum (upto 5 decimal places)

Constraints :

$$0 \leq k \leq 1000$$

Sample Input 1 :

3

Sample Output 1 :

1.87500

Sample Input 2 :

4

Sample Output 2 :

1.93750