

Online Judge

F.A.Q Hand In Hand Online Acmers Forum | Discuss Statistical Charts **Online Exercise**

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SHawnHardy
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Exclusive or

Time Limit: 2000/1000 MS (Java/Others) Memory Limit: 131072/131072 K (Java/Others)
Total Submission(s): 871 Accepted Submission(s): 338

Problem Description

Given n, find the value of

$$\sum_{i=1}^{n-1} i \oplus (n-i).$$

Note: ⊕ denotes bitwise exclusive-or.

Input

The input consists of several tests. For each tests:

A single integer n $(2 \le n < 10^{500})$.

Output

For each tests:

A single integer, the value of the sum.

Sample Input

3 4

Sample Output

6 4

Author

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Source

2014 Multi-University Training Contest 5

Recommend

We have carefully selected several similar problems for you: 6107 6106 6105 6104 6103

Statistic | Submit | Discuss | Note

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Administration

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