

Problem Description

Reverse the bits of an **32** bit unsigned integer A.

Problem Constraints

$$0 \leq A \leq 2^{32}$$

Input Format

First and only argument of input contains an integer A.

Output Format

Return a single unsigned integer denoting the decimal value of reversed bits.

Example Input

Input 1:

0

Input 2:

3

Example Output

Output 1:

0

Output 2:

3221225472

Example Explanation

Explanation 1:

```
00000000000000000000000000000000
=> 00000000000000000000000000000000
```

Explanation 2:

```
00000000000000000000000000000011
=> 11000000000000000000000000000000
```

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