3n + 1 Sequence

RTCP — HANDLE ERRORS SMARTLY — PROBLEM DESCRIPTION youtube.com/shariftech

3n+1 Sequence

You have to print nth number from a sequence defined as follows:

- start with any integer p (>=0).
- Then each term is obtained from the previous term as follows:
 - o if the previous term (p1) is even, the next term(p2) is one half of the previous term (p2 = p1/2).
 - o If the previous term(p1) is odd, the next term(p2) is 3 times the previous term plus 1 (p2 = p1*3 + 1).

So if

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p = 13
n = 4
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then the sequence

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13 40 20 10 5 16 ----
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And the nth (4th) number from the sequence is 10.

Input:

Only line of input contains two integers p,n (0 \leq p \leq 10^9) and (1 \leq n \leq 10^9)

Output:

Print the nth number from the sequence started with p.

Input	Output
41	4
4 2	2