EVIL & ODIOUS

A non-negative integer is called evil if has an even number of ones in its binary representation. Similarly, a non-negative integer is called *odious* if has an odd number of ones in its binary representation. Let us write down evil and odious numbers in ascending order.

Number index	1	2	3	4	5	6	7	8	9	10	11	12	13	14	…
Evil number	0	3	5	6	9	10	12	15	17	18	20	23	24	27	…
Odious number	1	2	4	7	8	11	13	14	16	19	21	22	25	26	…

Let **E(n)** be the **n**-th evil number in this list. Similarly, let **O(n)** be the **n**-th odious number.

Write a program to calculate the sum of n-th evil and odious numbers **E(n) + O(n)** given their index **n**.

Input

The input file contains a single integer, **n** (**1** ≤ **n** ≤ **1000000**).

Output

The output file should contain a single integer, the sum **E(n)** + **O(n)**.

Example

№	stdin	stdout
1	1	1
2	10	37