Tetranacci Number II

The **Tetranacci sequence** is an extension of the well-known Fibonacci sequence, incorporating four previous terms instead of two.

The Tetranacci sequence T_n is defined as follows:

- $T_0 = 0$, $T_1 = 1$, $T_2 = 1$, $T_3 = 2$
- For $n \geq 4$, $T_n = T_{n-1} + T_{n-2} + T_{n-3} + T_{n-4}$

Given an integer n, return the value of T_n

Note : You must solve this problem using **Loop. (Bottom up)**

Input Format

A single integer n representing the position in the Tetranacci sequence.

Constraints

- $0 \leq n \leq 60$
- The result is guaranteed to fit within a 64-bit integer ($\leq 2^{63}-1$)

Output Format

Print a single integer, the value of T_n

Sample Input 0

```
4
```

Sample Output 0

```
4
```

Explanation 0

$$T_4 = T_3 + T_2 + T_1 + T_0 = 2 + 1 + 1 + 0 = 4$$

Sample Input 1

```
5
```

Sample Output 1

8

Explanation 1

$$T_5 = T_4 + T_3 + T_2 + T_1 = 4 + 2 + 1 + 1 = 8$$

Submissions: 264
Max Score: 20
Difficulty: Medium

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C++

```
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

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