

N-th Tribonacci Number

Try to solve the N-th Tribonacci Number problem.

We'll cover the following ^

- Statement
- Examples
- Understand the problem
- Figure it out!
- Try it yourself

Statement

Given a number n , calculate the corresponding Tribonacci number. The Tribonacci sequence T_n is defined as:

$$T_0 = 0, T_1 = 1, T_2 = 1, \text{ and } T_{n+3} = T_n + T_{n+1} + T_{n+2}, \text{ for } n \geq 0$$

The input number, n , is a non-negative integer.

Constraints:

- $0 \leq n \leq 37$
- The answer is guaranteed to fit within a 32-bit integer, i.e., $\text{answer} \leq 2^{31} - 1$

Examples

Sample example 1

Input

$n = 7$

We will find n in this example

0	1	1	2	4	7	13	x
---	---	---	---	---	---	----	---

Calculating the sum of the previous 3 elements

0	1	1	2	4	7	13	x
---	---	---	---	---	---	----	---

The unknown element was 24

0	1	1	2	4	7	13	24
---	---	---	---	---	---	----	----

Output

24

1 of 2



Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

N-th Tribonacci Number

1

What is the 5th Tribonacci number?

A) 5

B) 7

C) 15

D) 4

Submit Answer

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Question 1 of 3
0 attempted

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Reset Quiz ↻

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

 Drag and drop the cards to rearrange them in the correct sequence.

Initialize the first three numbers as 0, 1, and 1 respectively.

If n is less than 3, then the result will be determined by the base case.

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Else continue computing the third and next numbers by adding the previous three numbers. Update them until the required number is obtained.



Reset

Show Solution

Submit

Try it yourself

Implement your solution in the following coding playground:

Java

usercode > main.java

```
1 import java.util.*;
2 public class Main{
3     public static int findTribonacci(int n) {
4
5         // Write your code here
6
7         return 0;
8     }
9 }
```

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Test Cases

Results

Case 1Case 2Case 3

Input #1

0

Nth Tribonacci Number

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Solution: Coin Change

Next →

Solution: N-th Tribona...

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