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:

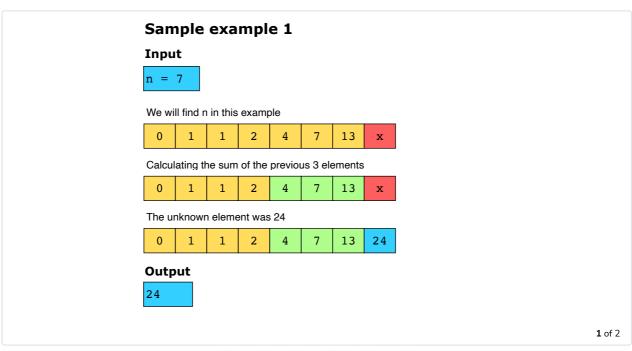
$$T_0=0,\; T_1=1,\; T_2=1,$$
 and $T_{n+3}=T_n+T_{n+1}+T_{n+2},\; {
m for}\; n>=0$

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

Constraints:

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

Examples



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:

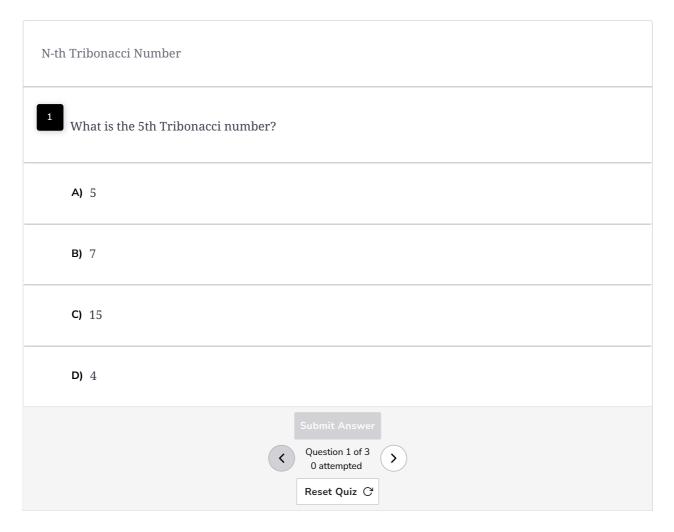
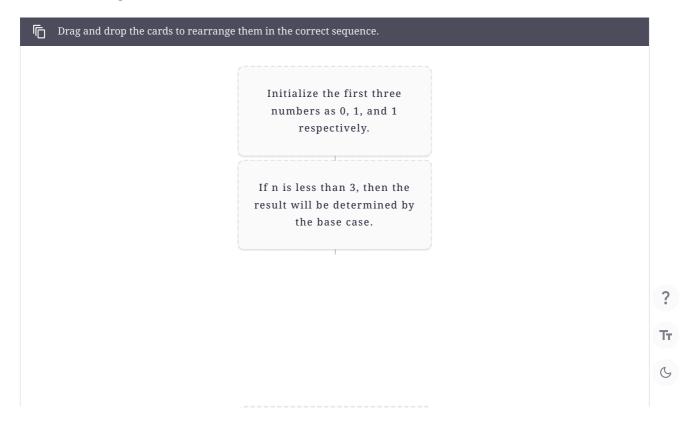


Figure it out!

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



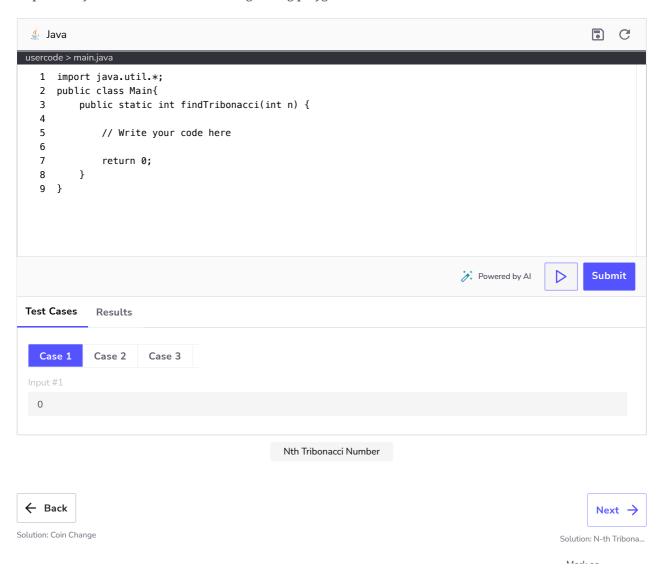
Else continue computing the third and next numbers by adding the previous three numbers. Update them until the required number is obtained.

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Try it yourself

Implement your solution in the following coding playground:



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