

4th Bit

🕒 Recommended Time: 11 mins 🏆 Points: 50 🔄 7 test cases (3 samples)

Skills: Problem Solving (Basic) 📖

Coding



EASY

Bit Manipulation

Algorithms

Problem Solving

A binary number is a combination of 1s and 0s. Its n^{th} least significant digit is the n^{th} digit starting from the right starting with 1. Given a decimal number, convert it to binary and determine the value of the 4^{th} least significant digit.

Example

number = 23

- Convert the decimal number 23 to binary number: $23_{10} = 2^4 + 2^2 + 2^1 + 2^0 = (10111)_2$.
- The value of the 4^{th} index from the right in the binary representation is 0.

Function Description

Complete the function *fourthBit* in the editor below.

fourthBit has the following parameter(s):

int number: a decimal integer

Returns:

int: an integer 0 or 1 matching the 4^{th} least significant digit in the binary representation of *number*.

Constraints

- $0 \leq \text{number} < 2^{31}$

► Input Format for Custom Testing

▼ Sample Case 0

Sample Input 0