

# GE23131-Programming Using C-2024

Quiz navigation

1

2

Show one page at a time

Finish review

Status	Finished
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Question 1

Correct

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A binary number is a combination of 1s and 0s. Its  $n^{\text{th}}$  least significant digit is the  $n^{\text{th}}$  digit starting from the right starting with 1. Given a decimal number, convert it to binary and determine the value of the the 4<sup>th</sup> 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<sup>th</sup> 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 4th least significant digit in the binary representation of number.

**Constraints**

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

**Input Format for Custom Testing**

Input from stdin will be processed as follows and passed to the function