Full adder   X31980_en

Design a full adder. A full adder is a circuit that performs a 1-bit addition receiving an input carry and generating an output carry.

Specification

> **module** *full_adder*(*a*, *b*, *cin*, *sum*, *cout*);
>   **input** *a*, *b*, *cin*;
>   **output** *sum*, *cout*;

Input

- *a* and *b* are the two inputs.

- **cin** is the input carry.

Output

- *sum* is the sum of the two bits and the input carry.

- **cout** is the output carry.

Problem information

Author : Jordi Cortadella
Generation : 2013-09-02 15:56:47