|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Cases | A | B | C\_IN | C\_OUT | SUM |
| A | 0 | 1 | 0 | 0 | 1 |
| B | 1 | 0 | 0 | 0 | 1 |
| C | 1 | 1 | 0 | 1 | 0 |
| D | 0 | 0 | 1 | 0 | 1 |
| E | 0 | 1 | 1 | 1 | 0 |
| F | 1 | 0 | 1 | 1 | 0 |
| G | 1 | 1 | 1 | 1 | 1 |

The Full Adder takes in three inputs, A, B and Carry In and adds them together, giving the result of the binary addition.