```
// Jonathan Monreal
2
    // Impliment a partial adder
4
   module adder(a, b, ci, s, co);
5
        input a, b, ci;
6
7
        output s, co;
        wire e_, f_, y2_;
8
9
       not u5(a_, a);
not u6(b_, b);
10
11
12
       nand u1(y1, a_, b_);
      nand u2(y2_, ci, y1);
13
      nand u3(y3_, a, b);
nand u4(co, y2_, y3_);
14
15
16
17 endmodule
```

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