

```
1  --*****
2  -- Dylan Brown
3  -- ECE222 DP 2
4  -- Due 2/18
5  --*****
6
7  entity fulladdmult is
8      port(a, x, y, ci: IN BIT;
9            s, co      : OUT BIT);
10 end fulladdmult;
11
12 architecture brown of fulladdmult is
13
14     signal b : BIT;
15
16 begin
17     b<= x AND y;
18     s<= a XOR b XOR ci;
19     co<= (a AND b) OR (a AND ci) or (b AND ci);
20 end brown;
```