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// CSE 469
// Lab 1 Task 3
// A module to implement a fullAdder.
// This file was reused from a given file in EE 371
module fullAdder (a, b, carryIn, Result, carryOut);

input logic a, b, carryIn;
output logic Result, carryOut;

assign Result = a ^ b ^ carryIn;
assign carryOut = (a & b) | (carryIn & (a ^ b));

endmodule
```