CIS 351 Sample ADD3 Problem

06 January 2022

ADD3: Carry Lookahead Adder

(a) Sketch the lookahead logic for the carry into column 4. (Columns are indexed beginning with 0.)

(b) Suppose one were to make a mistake and accidentally use an `AND` gate in place of the rightmost `OR` gate for the carry lookahead logic. Describe the inputs A and B that would produce a value of 1 on the carry out.