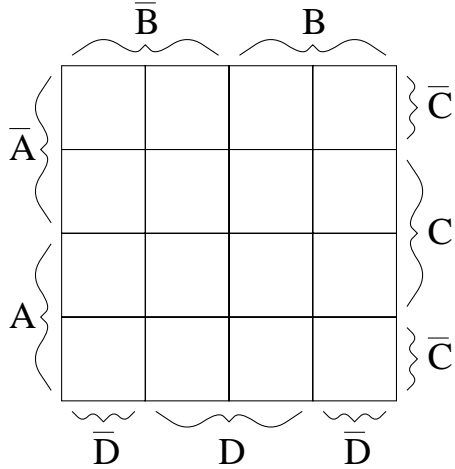


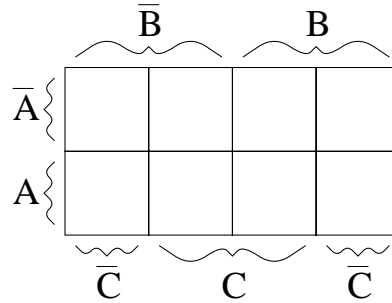
Karnaugh Maps

For the following expressions below, complete the Karnaugh maps. Do *not* identify prime implicants for this problem.

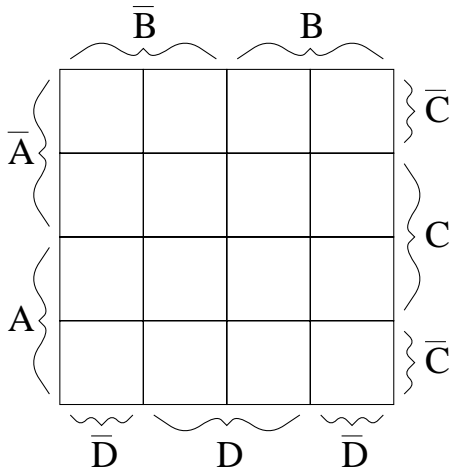
$$F_{(A,B,C,D)} = A + B\bar{C} + \bar{A}BD$$



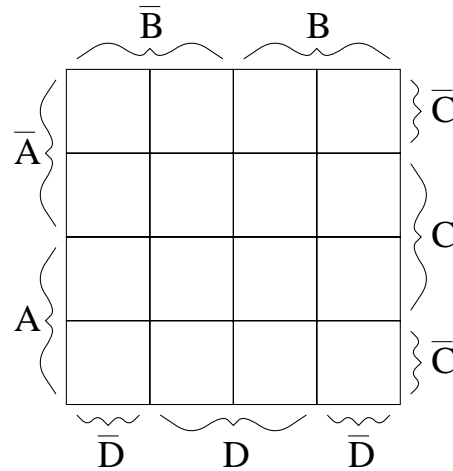
$$F_{(A,B,C,D)} = A\bar{B}\bar{C} + \bar{A}B\bar{C} + \bar{A}\bar{B}C + ABC$$



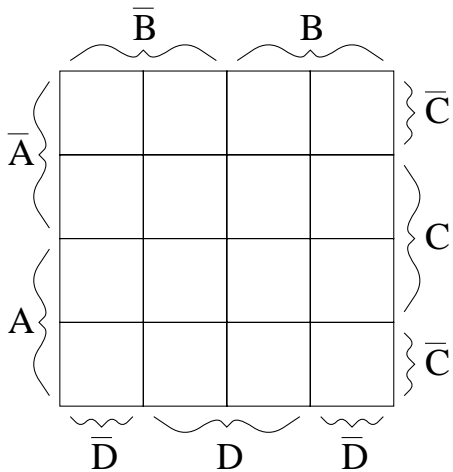
$$F_{(A,B,C,D)} = C + B\bar{D} + A\bar{B}D + \bar{A}\bar{D}$$



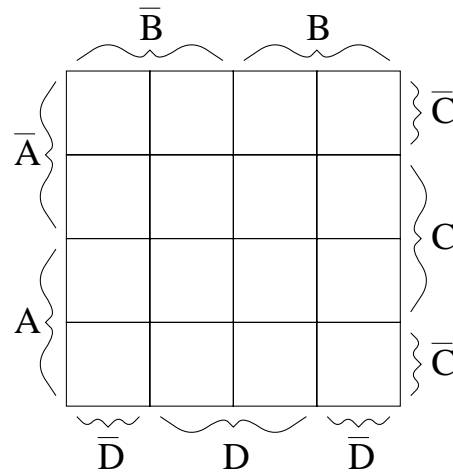
$$F_{(A,B,C,D)} = \bar{A}C + BD + \bar{A}B + A\bar{B}\bar{C}\bar{D}$$



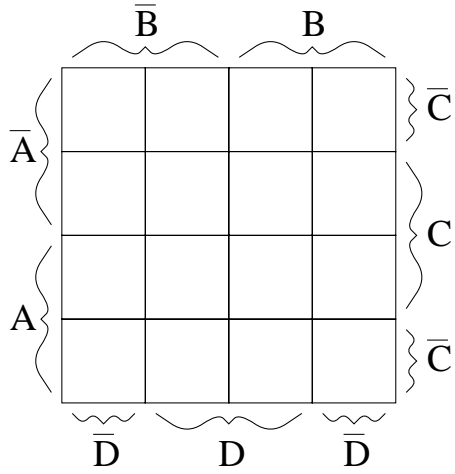
$$F_{(A,B,C,D)} = (\bar{C} + \bar{D})(C + D)$$



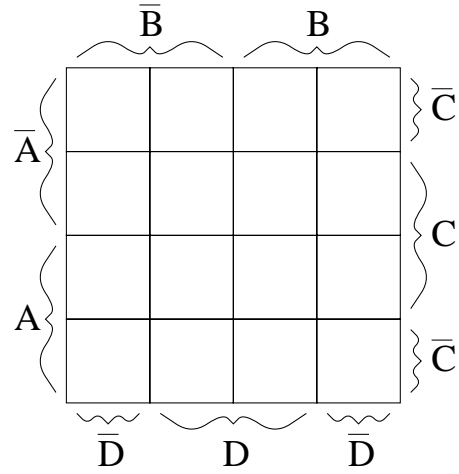
$$F_{(A,B,C,D)} = (\bar{A} + C)(\bar{A} + \bar{B})(\bar{B} + \bar{D})(A + B + \bar{C} + D)$$



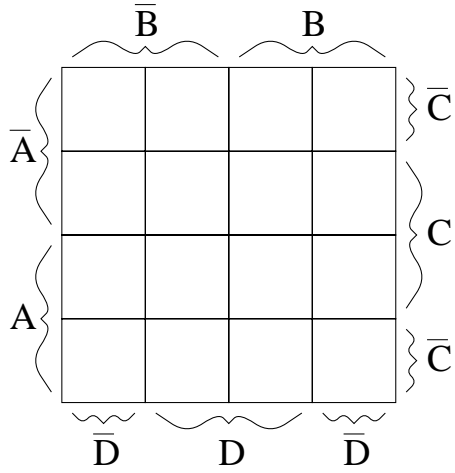
$$F_{(A,B,C,D)} = \bar{D}A + CD + \bar{A}\bar{C} + ABD$$



$$F_{(A,B,C,D)} = ABCD + \bar{A}\bar{C}\bar{D} + \bar{B}D$$



$$F_{(A,B,C,D)} = (\bar{C} + B)(A + \bar{B} + \bar{D})$$



$$F_{(A,B,C,D)} = \bar{A}(A + B)(\bar{B} + \bar{D})(A + \bar{B} + C + D)$$

