

# En A0 A1| 00 01 02 03 | Expected Output

# 0 0 0 | 0 0 0 0 | All false

# 0 1 0 | 0 0 0 0 | All false

# 0 0 1 | 0 0 0 0 | All false

# 0 1 1 | 0 0 0 0 | All false

# 1 0 0 | 1 0 0 0 | 00 Only

# 1 1 0 | 0 1 0 0 | 01 Only

# 1 0 1 | 0 0 1 0 | 02 Only

# 1 1 1 | 0 0 0 1 | 03 Only

# A B CI| SUM CO | Expected Output

# 0 0 0 | 0 0 | 0

# 1 0 0 | 1 0 | 1

# 0 1 0 | 1 0 | 1

# 1 1 0 | 0 1 | 2

# 0 0 1 | 1 0 | 1

# 1 0 1 | 0 1 | 1

# 0 1 1 | 0 1 | 2

# 1 1 1 | 1 1 | 3

# I0 I1 I2 I3 A0 A1| OUT | Expected Output

# 0 X X X 0 0 | 0 | I0

# 1 X X X 0 0 | 1 | I0

# X 0 X X 1 0 | 0 | I1

# X 1 X X 1 0 | 1 | I1

# X X 0 X 0 1 | 0 | I2

# X X 1 X 0 1 | 1 | I2

# X X X 0 1 1 | 0 | I3

# X X X 1 1 1 | 1 | I3

