

| i | A | B | C | D | i <sup>+</sup> | A <sup>+</sup> | B <sup>+</sup> | C <sup>+</sup> | D <sup>+</sup> |
|---|---|---|---|---|----------------|----------------|----------------|----------------|----------------|
| 0 | 0 | 0 | 0 | 0 | 1              | 0              | 0              | 0              | 1              |
| 1 | 0 | 0 | 0 | 1 | 2              | 0              | 0              | 1              | 0              |
| 2 | 0 | 0 | 1 | 0 | 3              | 0              | 0              | 1              | 1              |
| 3 | 0 | 0 | 1 | 1 | 4              | 0              | 1              | 0              | 0              |
| 4 | 0 | 1 | 0 | 0 | 5              | 0              | 1              | 0              | 1              |
| 5 | 0 | 1 | 0 | 1 | 6              | 0              | 1              | 1              | 0              |
| 6 | 0 | 1 | 1 | 0 | 7              | 0              | 1              | 1              | 1              |
| 7 | 0 | 1 | 1 | 1 | 8              | 1              | 0              | 0              | 0              |
| 8 | 1 | 0 | 0 | 0 | 9              | 1              | 0              | 0              | 1              |
| 9 | 1 | 0 | 0 | 1 | 0              | 0              | 0              | 0              | 0              |

C: 1, 3, 5, 7  
B: 3, 7

| i | D | Q <sup>-</sup> | Q <sup>+</sup> |
|---|---|----------------|----------------|
| 0 | 0 | 0              | 0              |
| 1 | 0 | 1              | 0              |
| 2 | 1 | 0              | 1              |
| 3 | 1 | 1              | 1              |

| i | Q <sup>-</sup> | Q <sup>+</sup> | D |
|---|----------------|----------------|---|
| 0 | 0              | 0              | 0 |
| 1 | 0              | 1              | 1 |
| 2 | 1              | 0              | 0 |
| 3 | 1              | 1              | 1 |

$\overline{b}$   
 $\overline{a}$

|   |   |   |   |
|---|---|---|---|
| 0 | 4 | X | 8 |
| 2 | 6 | X | X |
| 3 | 7 | X | X |
| 1 | 5 | X | 9 |

$\begin{array}{c} b \\ \hline a \\ \hline \end{array}$

$J_D$

|                                              |   |   |   |   |
|----------------------------------------------|---|---|---|---|
| $\begin{array}{c} c \\ \hline d \end{array}$ | 1 | 1 | X | 1 |
|                                              | 1 | 1 | X | X |
|                                              | 0 | 0 | X | X |
|                                              | 0 | 0 | X | 0 |

$$J_D = \bar{d}$$

$\begin{array}{c} b \\ \hline a \\ \hline \end{array}$

$J_C$

|                                              |   |   |   |   |
|----------------------------------------------|---|---|---|---|
| $\begin{array}{c} c \\ \hline d \end{array}$ | X | X | X | X |
|                                              | X | X | X | X |
|                                              | 0 | 0 | X | X |
|                                              | 1 | 1 | X | X |

$$J_C = \bar{c}$$

$\begin{array}{c} b \\ \hline a \\ \hline \end{array}$

$J_B$

|                                              |   |   |   |   |
|----------------------------------------------|---|---|---|---|
| $\begin{array}{c} c \\ \hline d \end{array}$ | X | X | X | X |
|                                              | X | X | X | X |
|                                              | 1 | 0 | X | X |
|                                              | X | X | X | X |

$$J_B = \bar{b}$$

$\begin{array}{c} b \\ \hline a \\ \hline \end{array}$

$J_A$

|                                              |   |   |   |   |
|----------------------------------------------|---|---|---|---|
| $\begin{array}{c} c \\ \hline d \end{array}$ | 0 | 0 | X | 1 |
|                                              | 0 | 0 | X | X |
|                                              | 0 | 1 | X | X |
|                                              | 0 | 0 | X | 0 |

$$J_A = a\bar{d} + bcd$$