**Kostruktion:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Q1 | Q2 | Q3 | Q4 | D1 | D2 | D3 | D4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | X | X | X | X |
| 0 | 0 | 1 | 1 | X | X | X | X |
| 0 | 1 | 0 | 0 | X | X | X | X |
| 0 | 1 | 0 | 1 | X | X | X | X |
| 0 | 1 | 1 | 0 | X | X | X | X |
| 0 | 1 | 1 | 1 | X | X | X | X |
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 |
| 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| D1 | Q̅1 | Q1 | Q1 | Q̅1 |  |
| Q̅3 | 1 | 0 | X | X | Q̅4 |
| Q3 | X | X | X | X | Q̅4 |
| Q3 | 1 | 0 | 0 | 1 | Q4 |
| Q̅3 | 1 | 0 | 0 | 1 | Q4 |
|  | Q̅2 | Q̅2 | Q2 | Q2 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| D2 | Q̅1 | Q1 | Q1 | Q̅1 |  |
| Q̅3 | 0 | 0 | X | X | Q̅4 |
| Q3 | X | X | X | X | Q̅4 |
| Q3 | 0 | 1 | 0 | 1 | Q4 |
| Q̅3 | 0 | 1 | 0 | 1 | Q4 |
|  | Q̅2 | Q̅2 | Q2 | Q2 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| D3 | Q̅1 | Q1 | Q1 | Q̅1 |  |
| Q̅3 | 0 | 0 | X | X | Q̅4 |
| Q3 | X | X | X | X | Q̅4 |
| Q3 | 1 | 1 | 0 | 1 | Q4 |
| Q̅3 | 0 | 0 | 1 | 0 | Q4 |
|  | Q̅2 | Q̅2 | Q2 | Q2 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| D4 | Q̅1 | Q1 | Q1 | Q̅1 |  |
| Q̅3 | 0 | 1 | X | X | Q̅4 |
| Q3 | X | X | X | X | Q̅4 |
| Q3 | 1 | 1 | 0 | 1 | Q4 |
| Q̅3 | 1 | 1 | 1 | 1 | Q4 |
|  | Q̅2 | Q̅2 | Q2 | Q2 |  |

D1 = Q̅1

D2 = (Q1^Q̅2^Q4) v (Q̅1^Q2^Q4) = Q4 ^ ((Q1^Q̅2) v (Q̅1^Q2))

D3 = (Q̅2^Q3) v (Q̅1^Q3) v (Q1^Q2^Q̅3) = ((Q̅2vQ̅1) ^Q3) v (Q1^Q2^Q̅3) = ((Q2^Q1) ^ Q3) v ((Q1^Q2) ^ Q̅3)

D4 = (Q̅1^Q4) v (Q1^Q̅2) v (Q̅1^Q2) v (Q1^Q2^Q̅3)