|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A\ BC | 00 | 01 | 11 | 10 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 0 | 1 | 0 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | C | Q |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 0 |

Boolean expression: Q = B̅C + A̅C

Loop Red: A,A̅,B̅,C -> B̅C

Loop Blue: A̅,B̅,C,B,C -> A̅C

