|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A  0000 | Q  1010 | Q0  0 | M  0101 | Initial Value | |
| 0000 | 0101 | 0 | 0101 | Shift | 1 |
| 1011  1101 | 0101  1010 | 0  1 | 0101  0101 | A = A-M  Shift | 2 |
| 0010  0001 | 1010  0101 | 1  0 | 0101  0101 | A = A+M  Shift | 3 |
| 1100  1110 | 0101  0010 | 0  1 | 0101  0101 | A = A-M  Shift | 4 |