|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A3<B3 | A3=B3 | A3>B3 | A2<B2 | A2=B2 | A2>B2 | A1<B1 | A1=B1 | A1>B1 | A0<B0 | A0=B0 | A0>B0 | A<B | A=B | A>B |
| 0 | 0 | 1 | X | X | X | X | X | X | X | X | X | 0 | 0 | 1 |
| 1 | 0 | 0 | X | X | X | X | X | X | X | X | X | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 1 | X | X | X | X | X | X | 0 | 0 | 1 |
| 0 | 1 | 0 | 1 | 0 | 0 | X | X | X | X | X | X | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | X | X | X | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | X | X | X | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |

A>B -> C3 +C2B3+ C1B3B2+ C0B3B2B1

A=B-> B3B2B1B0

A>B-> A3 +A2B3+ A1B3B2+ A0B3B2B1