C = [11 10 10 11 11 01 00 10 | 10 11 00]

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| T  状态 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| S0(00) | ● | 11 |  |  | ● | 11 | 01 |  |  | 11 | ● | ●  00 |
| S1(01) |  | ●  10 |  |  |  | ● |  | ●  10  00 |  |  |  |  |
| S2(10) |  |  | 10 | ● | 00 |  | ● |  |  | ●  10 |  |  |
| S3(11) |  |  | ● |  |  |  |  |  | ● |  |  |  |

R = [1110 10 11 11 01 00 10 | 11 11 10]

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 状态/时刻 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 汉明距离 |
| S0(00) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 3 |
| S1(01) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 4 |
| S2(10) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 4 |
| S3(11) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 4 |

最短路径为S0→S1→S3→S2→S0→S1→S2→S1→S3→S2→S0→S0

译码结果为M=[1 1 0 0 1 0 1 1 0 0 0]。