|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | E1 | E2 | E3 | E4 | E5 | E6 | E7 | E8 | E9 | E10 | E11 | E12 |
| E1 | 0 | 4 |  |  |  | 3 |  | 3 | 4 |  | 1 |  |
| E2 | 4 | 0 |  | 3 |  |  | 2 | 2 | 5 |  |  |  |
| E3 |  |  | 0 |  |  | 5 |  | 2 | 4 |  | 2 | 5 |
| E4 |  | 3 |  | 0 |  | 4 |  | 1 | 1 |  |  | 1 |
| E5 |  |  |  |  | 0 |  |  | 3 | 2 |  |  |  |
| E6 | 3 |  | 5 | 4 |  | 0 |  | 3 |  |  | 2 | 1 |
| E7 |  | 2 |  |  |  |  | 0 |  | 1 |  | 3 | 5 |
| E8 | 3 | 2 | 2 | 1 | 3 | 3 |  | 0 |  |  |  |  |
| E9 | 4 | 5 | 4 | 1 | 2 |  | 1 |  | 0 |  |  | 1 |
| E10 |  |  |  |  |  |  |  |  |  | 0 | 1 |  |
| E11 | 1 |  | 2 |  |  | 2 | 3 |  |  | 1 | 0 |  |
| E12 |  |  | 5 | 1 |  | 1 | 5 |  | 1 |  |  | 0 |

Исходная матрица:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | step1 | step2 | step3 | step4 | step5 | step6 | step7 | step8 | step9 | step10 | step11 | step12 |
| E1 | 0+ |  |  |  |  |  |  |  |  |  |  |  |
| E2 | ∞ | 4 | 4 | 4 | 4 | 4 | 4+ |  |  |  |  |  |
| E3 | ∞ | ∞ | 3 | 3+ |  |  |  |  |  |  |  |  |
| E4 | ∞ | ∞ | ∞ | ∞ | ∞ | 7 | 4 | 4+ |  |  |  |  |
| E5 | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | 6 | 6 | 6 | 6 | 6 | 6+ |
| E6 | ∞ | 3 | 3 | 3 | 3+ |  |  |  |  |  |  |  |
| E7 | ∞ | ∞ | 4 | 4 | 4 | 4 | 4 | 4 | 4+ |  |  |  |
| E8 | ∞ | 3 | 3 | 3 | 3 | 3+ |  |  |  |  |  |  |
| E9 | ∞ | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4+ |  |  |
| E10 | ∞ | ∞ | 2+ |  |  |  |  |  |  |  |  |  |
| E11 | ∞ | 1+ |  |  |  |  |  |  |  |  |  |  |
| E12 | ∞ | ∞ | ∞ | ∞ | 8 | 4 | 4 | 4 | 4 | 4 | 4+ |  |

Результат: