|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 4 | 12 | 4 | 7 | 5 | 4 |
| 11 |  | 11 | 6 | 3 | 9 | 3 |
| 9 | 5 |  | 10 | 11 | 12 | 5 |
| 6 | 12 | 7 |  | 11 | 11 | 6 |
| 7 | 8 | 3 | 5 |  | 3 | 3 |
| 11 | 10 | 3 | 8 | 8 |  | 3 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 | 8 | 0 | 3 | 1 |
| 8 |  | 8 | 3 | 0 | 6 |
| 4 | 0 |  | 5 | 6 | 7 |
| 0 | 6 | 1 |  | 5 | 5 |
| 4 | 5 | 0 | 2 |  | 0 |
| 8 | 7 | 0 | 5 | 5 |  |
| 0 | 0 | 0 | 0 | 0 | 0 |

H0 = 24

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 0 (0) | 8 | 0 (2) | 3 | 1 | 0 |
| 8 |  | 8 | 3 | 0 (6) | 6 | 3 |
| 4 | 0 (4) |  | 5 | 6 | 7 | 4 |
| 0 (5) | 6 | 1 |  | 5 | 5 | 1 |
| 4 | 5 | 0 (0) | 2 |  | 0 (1) | 0 |
| 8 | 7 | 0 (5) | 5 | 5 |  | 5 |
| 4 | 0 | 0 | 2 | 3 | 1 |  |

[2, 5]

Первое разбиение

H1 = H0 +0=24

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| индексы | 1 | 2 | 3 | 4 | 6 |  |
| 1 |  | 0 (0) | 8 | 0 (2) | 1 | 0 |
| 3 | 4 | 0 (4) |  | 5 | 7 | 0 |
| 4 | 0 (5) | 6 | 1 |  | 5 | 0 |
| 5 | 4 |  | 0 (0) | 2 | 0 (1) | 0 |
| 6 | 8 | 7 | 0 (5) | 5 |  | 0 |
|  | 0 | 0 | 0 | 0 | 0 |  |

Второе разбиение

G2 = H0 + (2,5) = 30

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0 (0) | 8 | 0 (2) | 3 | 1 |
| 8 |  | 8 | 3 | (6) | 6 |
| 4 | 0 (4) |  | 5 | 6 | 7 |
| 0 (5) | 6 | 1 |  | 5 | 5 |
| 4 | 5 | 0 (0) | 2 |  | 0 (1) |
| 8 | 7 | 0 (5) | 5 | 5 |  |

Тк H1 > G2 идем по первой ветви

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| индексы | 1 | 2 | 3 | 4 | 6 |  |
| 1 |  | 0 (0) | 8 | 0 (2) | 1 | 0 |
| 3 | 4 | 0 (4) |  | 5 | 7 | 4 |
| 4 | 0 (5) | 6 | 1 |  | 5 | 1 |
| 5 | 4 |  | 0 (0) | 2 | 0 (1) | 0 |
| 6 | 8 | 7 | 0 (5) | 5 |  | 5 |
|  | 4 | 0 | 0 | 2 | 1 |  |

[4,1]

1.1 H2 = H1 +0=24

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| индексы | 2 | 3 | 4 | 6 |  |
| 1 | 0 (0) | 8 |  | 1 | 0 |
| 3 | 0 (4) |  | 5 | 7 | 0 |
| 5 |  | 0 (0) | 2 | 0 (1) | 0 |
| 6 | 7 | 0 (5) | 5 |  | 0 |
|  | 0 | 0 | 0 | 0 |  |

1.2 G3 = H1 + (4,1) = 29

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 0 (0) | 8 | 0 (2) | 1 |
| 4 | 0 (4) |  | 5 | 7 |
| (5) | 6 | 1 |  | 5 |
| 4 |  | 0 (0) | 2 | 0 (1) |
| 8 | 7 | 0 (5) | 5 |  |

Тк H2 > G3 идем по ветке 1.1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| индексы | 2 | 3 | 4 | 6 |  |
| 1 | 0 (0) | 8 |  | 1 | 0 |
| 3 | 0 (5) |  | 5 | 7 | 5 |
| 5 |  | 0 (0) | 2 | 0 (1) | 0 |
| 6 | 7 | 0 (5) | 5 |  | 5 |
|  | 0 | 0 | 2 | 1 |  |

[3,2]

* + 1. H3 = H2 +3=27

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| индексы | 3 | 4 | 6 |  |
| 1 | 8 |  | 1 | 1 |
| 5 | 0 (0) | 2 | 0 (1) | 0 |
| 6 | 0 (5) | 5 |  | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| индексы | 3 | 4 | 6 |
| 1 | 7 |  | 0 |
| 5 | 0 (0) | 2 | 0 (1) |
| 6 | 0 (5) | 5 |  |
|  | 0 | 2 | 0 |

* + 1. G4 = H2 + (3,2) = 29

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| индексы | 2 | 3 | 4 | 6 |
| 1 | 0 (0) | 8 |  | 1 |
| 3 | (5) |  | 5 | 7 |
| 5 |  | 0 (0) | 2 | 0 (1) |
| 6 | 7 | 0 (5) | 5 |  |

Тк H3 > G4 идем по ветке 1.1.1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| индексы | 3 | 4 | 6 |  |
| 1 | 7 |  | 0 (7) | 7 |
| 5 | 0 (0) | 0 (2) | 0 (1) | 0 |
| 6 | 0 (3) | 3 |  | 3 |
|  | 0 | 2 | 0 |  |

[1,6]

1.1.1.1 H4 = H3 +0=27

|  |  |  |  |
| --- | --- | --- | --- |
| индексы | 3 | 4 |  |
| 5 | 0 (0) | 0 (2) | 0 |
| 6 | 0 (3) | 3 | 0 |
|  | 0 | 0 |  |

1.1.1.2 G5 = H3 + (1,6) = 36

|  |  |  |  |
| --- | --- | --- | --- |
| индексы | 3 | 4 | 6 |
| 1 | 7 |  | (7) |
| 5 | 0 (0) | 0 (2) | 0 (1) |
| 6 | 0 (3) | 3 |  |

Тк H4 > G5 идем по ветке 1.1.1.1

|  |  |  |  |
| --- | --- | --- | --- |
| индексы | 3 | 4 |  |
| 5 | 0 (0) | 0 (3) | 0 |
| 6 | 0 (3) | 3 | 3 |
|  | 0 | 3 |  |

[5,4]

1.1.1.1.1 H5 = H4 + 0=27

|  |  |  |
| --- | --- | --- |
| индексы | 3 |  |
| 6 | 0 (3) | 0 |
|  | 0 |  |

1.1.1.1.2 G6 = H4 + (5,4) = 30

|  |  |  |
| --- | --- | --- |
| индексы | 3 | 4 |
| 5 | 0 (0) | (3) |
| 6 | 0 (3) | 3 |

Тк H5 > G6 идем по ветке 1.1.1.1.1

|  |  |  |
| --- | --- | --- |
| индексы | 3 |  |
| 6 | 0 (3) | 0 |
|  | 0 |  |

[6,3]

Гамильтонов цикл

[2, 5]

[5,4]

[4,1]

[1,6]

[6,3]

[3,2]