**Глава 6.**

**Задача 1.**

**Задача 3.**

Таблицы и циклотомические классы посчитаны программно (Task3).

Для :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 31 | M\_0 | 30 | 2 | 2 |
| M\_15 | 26 | 3 | 3 |
| M\_0M\_1 | 25 | 4 | 4 |
| M\_7M\_15 | 21 | 5 | 5 |
| M\_0M\_1M\_3 | 20 | 6 | 6 |
| M\_7M\_11M\_15 | 16 | 7 | 8 |
| M\_0M\_1M\_3M\_5 | 15 | 8 | 8 |
| M\_3M\_7M\_11M\_15 | 11 | 11 | 11 |
| M\_0M\_1M\_3M\_5M\_7 | 10 | 12 | 12 |
| M\_3M\_5M\_7M\_11M\_15 | 6 | 15 | 15 |
| M\_0M\_1M\_3M\_5M\_7M\_11 | 5 | 16 | 16 |
| M\_1M\_3M\_5M\_7M\_11M\_15 | 1 | 31 | 31 |

Для :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 63 | M\_0 | 62 | 2 | 2 |
| M\_31 | 57 | 3 | 3 |
| M\_0M\_1 | 56 | 4 | 4 |
| M\_15M\_31 | 51 | 5 | 5 |
| M\_0M\_1M\_3 | 50 | 6 | 6 |
| M\_15M\_23M\_31 | 45 | 7 | 6-7 |
| M\_0M\_1M\_3M\_5 | 44 | 8 | 8 |
| M\_7M\_15M\_23M\_31 | 39 | 9 | 9-11 |
| M\_0M\_1M\_3M\_5M\_7 | 38 | 10 | 10-12 |
| M\_7M\_15M\_23M\_27M\_31 | 36 | 11 | 11-12 |
| M\_0M\_1M\_3M\_5M\_7M\_9 | 35 | 12 | 12-13 |
| M\_7M\_13M\_15M\_23M\_27M\_31 | 30 | 13 | 13-16 |
| M\_0M\_1M\_3M\_5M\_7M\_9M\_11 | 29 | 14 | 14-16 |
| M\_7M\_11M\_13M\_15M\_23M\_27M\_31 | 24 | 15 | 16-19 |
| M\_0M\_1M\_3M\_5M\_7M\_9M\_11M\_13 | 23 | 16 | 16-20 |
| M\_3M\_7M\_11M\_13M\_15M\_23M\_27M\_31 | 18 | 21 | 21-22 |
| M\_0M\_1M\_3M\_5M\_7M\_9M\_11M\_13M\_15 | 17 | 22 | 22-23 |
| M\_3M\_7M\_11M\_13M\_15M\_21M\_23M\_27M\_31 | 16 | 23 | 23-24 |
| M\_0M\_1M\_3M\_5M\_7M\_9M\_11M\_13M\_15M\_21 | 15 | 24 | 24 |
| M\_3M\_5M\_7M\_11M\_13M\_15M\_21M\_23M\_27M\_31 | 10 | 27 | 27-28 |
| M\_0M\_1M\_3M\_5M\_7M\_9M\_11M\_13M\_15M\_21M\_23 | 9 | 28 | 28 |
| M\_3M\_5M\_7M\_9M\_11M\_13M\_15M\_21M\_23M\_27M\_31 | 7 | 31 | 31 |
| M\_0M\_1M\_3M\_5M\_7M\_9M\_11M\_13M\_15M\_21M\_23M\_27 | 6 | 32 | 32 |
| M\_1M\_3M\_5M\_7M\_9M\_11M\_13M\_15M\_21M\_23M\_27M\_31 | 1 | 63 | 63 |

**Задача 4.**

Для :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 17 | M\_0 | 16 | 2 | 2 |
| M\_1 | 9 | 3 | 5 |
| M\_3 | 9 | 4 | 6 |
| M\_1M\_3 | 1 | 17 | 17 |

Для :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| 21 | M\_0 | 20 | 2 | 2 |
| M\_7M\_9 | 16 | 3 | 3 |
| M\_0M\_1 | 14 | 4 | 4 |
| M\_5M\_9 | 12 | 5 | 5 |
| M\_0M\_1M\_3 | 11 | 6 | 6 |
| M\_1M\_5M\_9 | 6 | 7 | 8 |
| M\_0M\_1M\_3M\_5 | 5 | 8 | 10 |
| M\_1M\_5M\_7M\_9 | 4 | 9 | 10 |
| M\_0M\_1M\_3M\_5M\_7 | 3 | 10 | 12 |
| M\_1M\_3M\_5M\_7M\_9 | 1 | 21 | 21 |