РГЗ 1, задание 5, вариант 6;

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На множестве X задано отношение несовместимости R. Построить все максимальные совместимые подмножества множества X.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **R** | **x1** | **x2** | **x3** | **x4** | **x5** | **x6** |
| **x1** | - |  | 1 | 1 |  | 1 |
| **x2** |  | - | 1 |  | 1 |  |
| **x3** | 1 | 1 | - |  | 1 |  |
| **x4** | 1 |  |  | - |  | 1 |
| **x5** |  | 1 | 1 |  | - | 1 |
| **x6** | 1 |  |  | 1 | 1 | - |

**РЕШЕНИЕ**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **x1** | **x2** | **x3** | **x4** | **x5** | **x6** |  |
| 1 | 1🡾 |  |  |  |  | y1 |
| 1 |  |  |  | 1🡾 |  | y2 |
| 1🡾 |  |  |  |  |  | - yy1 |
|  | 1 |  | 1🡾 |  |  | y3 |
|  | 1 |  |  |  | 1🡾 | y4 |
|  | 1🡾 |  |  |  |  | - yy3 |
|  |  | 1 | 1🡾 |  |  | y5 |
|  |  | 1 |  |  | 1🡾 | y6 |
|  |  | 1🡾 |  |  |  | - yy5 |
|  |  |  | 1 | 1🡾` |  | y7 |
|  |  |  | 1🡾 |  |  | - yy7 |
|  |  |  |  | 1🡾 |  | - yy7 |
|  |  |  |  |  | 1🡾 | - yy6 |

Получено 7 максимальных совместимых подмножеств: