

***Constructor Summary***

**Constructors**

***Method Summary***

**Package** [com.mirea.prakt.prakt2.Brusov](file://localhost/F:/Desk/Rep/TiVPO/IKBO-16-19/prakt/build/docs/javadoc/com/mirea/prakt/prakt2/Brusov/package-summary.html)

Class Matrix

[java.lang.Object](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html) com.mirea.prakt.prakt2.Brusov.Matrix

public class **Matrix**

extends [Object](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html)

***Field Summary***

**Fields**



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| **Modifier and Type Field Description** |
| static final [**String**](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/String.html) **ANSI\_GREEN** |
| static final [**String**](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/String.html) **ANSI\_RESET** |

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| **Constructor** | **Description** |
| **Matrix**() | Конструктор. |
| **Matrix**(int[][] matrix) | Конструктор. |
| **Matrix**(int N, int M) | Конструктор. |

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| **All Methods** | **Instance Methods** | | **Concrete Methods** | |  |
| **Modifier and Type** | | **Method** | | **Description** | |
| int | | **getM**() | | Получить количество строк в матрице. | |
| int[][] | | **getMatrix**() | | Получить массив матрицы. | |
| int | | **getN**() | | Получить количество столбцов в матрице. | |
| boolean | | **initMatrix**(boolean print) | | инициализация матрицы вручную. | |
| boolean | | **showMatrix**() | | Выводит матрицу. | |
| [**Matrix**](file://localhost/F:/Desk/Rep/TiVPO/IKBO-16-19/prakt/build/docs/javadoc/com/mirea/prakt/prakt2/Brusov/Matrix.html) | | **transMatrix**() | | Транспорирование матрицы. | |

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| **Methods inherited from class java.lang.**[**Object**](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html) |
| [clone](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#clone()) , [equals](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#equals(java.lang.Object)) , [finalize](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#finalize()) , [getClass](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#getClass()) , [hashCode](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#hashCode()) , [notify](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#notify()) , [notifyAll](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#notifyAll()) , [toString](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#toString()) , [wait](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#wait()) , [wait](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#wait(long)) , [wait](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/Object.html#wait(long%2Cint)) |



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| **ANSI\_RESET** |
| public static final [String](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/String.html) ANSI\_RESET  **See Also:**  [Constant Field Values](file://localhost/F:/Desk/Rep/TiVPO/IKBO-16-19/prakt/build/docs/javadoc/constant-values.html#com.mirea.prakt.prakt2.Brusov.Matrix.ANSI_RESET) |

***Constructor Details***

***Field Details***

public static final [String](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/lang/String.html) ANSI\_GREEN

**See Also:**

[Constant Field Values](file://localhost/F:/Desk/Rep/TiVPO/IKBO-16-19/prakt/build/docs/javadoc/constant-values.html#com.mirea.prakt.prakt2.Brusov.Matrix.ANSI_GREEN)

**ANSI\_GREEN**

public Matrix()

Конструктор.

**Matrix**

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| **Matrix** |
| public Matrix(int N,  int M)  Конструктор.  **Parameters:**  N - количество столбцов в матрице  M - количесвто строк в матрице |

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| **Matrix** |
| public Matrix(int[][] matrix)  Конструктор.  **Parameters:**  matrix - произаольный двумерный массив чисел, преобразуемый в матрицу |

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| ***Method Details*** | | |
|  | **initMatrix** |  |
|  | public boolean initMatrix(boolean print) |

инициализация матрицы вручную.

public int[][] getMatrix()

Получить массив матрицы.

**Returns:**

двумерный массив чисел

public [Matrix](file://localhost/F:/Desk/Rep/TiVPO/IKBO-16-19/prakt/build/docs/javadoc/com/mirea/prakt/prakt2/Brusov/Matrix.html) transMatrix()

Транспорирование матрицы.

**Returns:**

новый объект матрицы

**Parameters:**

print - При true, печатает введённые значения

**Returns:**

ответ успеха выполнения функции

public boolean showMatrix()

Выводит матрицу.

**Returns:**

ответ успеха выполнения функции

**showMatrix**

**transMatrix**

**getMatrix**

**getM**

public int getM()

Получить количество строк в матрице.

**Returns:**

целое число строк

**getN**

public int getN()

Получить количество столбцов в матрице.

**Returns:**

целое число столбцов