

## Лабораторная работа 5. Массивы

Задания:

1. Заполнить массив значениями согласно варианту. Результат в виде таблицы значений массива вывести на консоль.
2. Реализовать перемножение двух матриц 2x2 на основании данных варианта задания. Результат в виде таблицы значений элементов результирующей матрицы вывести на консоль.

Варианты заданий

| №<br>варианта | Значения массива задания 1            | Матрицы для перемножения в задании<br>2 |     |    |   |     |   |
|---------------|---------------------------------------|---|-----|----|---|-----|---|
| 1             | 10, 20, 30, 40, 50, 60, 70            | 1                                       | 2 1 | 2  | 1 | 0 1 | 0 |
|               |                                       | 3                                       | 4 3 | 4, | 0 | 1 0 | 1 |
| 2             | 23, 5678, 2, 564, 365, 77,443         | 1                                       | 0 1 | 0  | 1 | 2 1 | 2 |
|               |                                       | 1                                       | 4 1 | 4, | 0 | 1 0 | 1 |
| 3             | 88, 112, 6467, 325, 878, 3, 77, 8, 99 | 1                                       | 2 1 | 2  | 1 | 1 1 | 1 |
|               |                                       | 3                                       | 1 3 | 1, | 0 | 2 0 | 2 |
| 4             | 12, 13, 14, 15, 16, 17, 18, 19, 20    | 1                                       | 1 1 | 1  | 1 | 2 1 | 2 |
|               |                                       | 1                                       | 4 1 | 4, | 4 | 1 4 | 1 |
| 5             | 99, 88, 77, 66, 55, 44, 33, 22, 11    | 1                                       | 1 1 | 1  | 1 | 2 1 | 2 |
|               |                                       | 1                                       | 4 1 | 4, | 4 | 1 4 | 1 |
| 6             | 34, 45, 56, 67, 78, 89                | 1                                       | 1 1 | 1  | 2 | 0 2 | 0 |
|               |                                       | 0                                       | 1 0 | 1, | 3 | 0 3 | 0 |
| 7             | 90, 76, 54, 23, 56, 12, 48            | 2                                       | 5 2 | 5  | 1 | 2 1 | 2 |
|               |                                       | 2                                       | 2 2 | 2, | 0 | 1 0 | 1 |
| 8             | 77, 12, 74, 34, 56, 78, 234, 678      | 2                                       | 1 2 | 1  | 1 | 2 1 | 2 |
|               |                                       | 1                                       | 3 1 | 3, | 3 | 1 3 | 1 |
| 9             | 123, 123, 123, 123, 456, 321, 1       | 1                                       | 2 1 | 2  | 1 | 0 1 | 0 |
|               |                                       | 3                                       | 4 3 | 4, | 0 | 1 0 | 1 |
| 10            | 0, 3, 5, 7, 11, 13                    | 1                                       | 0 1 | 0  | 1 | 2 1 | 2 |
|               |                                       | 1                                       | 4 1 | 4, | 0 | 1 0 | 1 |
| 11            | 10, 20, 30, 40, 50, 60, 70            | 1                                       | 2 1 | 2  | 1 | 1 1 | 1 |
|               |                                       | 3                                       | 1 3 | 1, | 0 | 2 0 | 2 |
| 12            | 23, 5678, 2, 564, 365, 77,443         | 1                                       | 1 1 | 1  | 1 | 2 1 | 2 |
|               |                                       | 1                                       | 4 1 | 4, | 4 | 1 4 | 1 |
| 13            | 88, 112, 6467, 325, 878, 3, 77, 8, 99 | 1                                       | 1 1 | 1  | 1 | 2 1 | 2 |
|               |                                       | 1                                       | 4 1 | 4, | 4 | 1 4 | 1 |
| 14            | 12, 13, 14, 15, 16, 17, 18, 19, 20    | 1                                       | 1 1 | 1  | 2 | 0 2 | 0 |
|               |                                       | 0                                       | 1 0 | 1, | 3 | 0 3 | 0 |
| 15            | 99, 88, 77, 66, 55, 44, 33, 22, 11    | 2                                       | 5 2 | 5  | 1 | 2 1 | 2 |
|               |                                       | 2                                       | 2 2 | 2, | 0 | 1 0 | 1 |
| 16            | 34, 45, 56, 67, 78, 89                | 2                                       | 1 2 | 1  | 1 | 2 1 | 2 |
|               |                                       | 1                                       | 3 1 | 3, | 3 | 1 3 | 1 |
| 17            | 90, 76, 54, 23, 56, 12, 48            | 1                                       | 2 1 | 2  | 1 | 0 1 | 0 |
|               |                                       | 3                                       | 4 3 | 4, | 0 | 1 0 | 1 |
| 18            | 77, 12, 74, 34, 56, 78, 234, 678      | 1                                       | 0 1 | 0  | 1 | 2 1 | 2 |
|               |                                       | 1                                       | 4 1 | 4, | 0 | 1 0 | 1 |

|    |                                       |                                     |
|----|---------------------------------------|-------------------------------------|
| 19 | 123, 123, 123, 123, 456, 321, 1       | 1 2 1 2 1 1 1<br>3 1 3 1, 0 2 0 2   |
| 20 | 0, 3, 5, 7, 11, 13                    | 1 1 1 1 1 2<br>1 4 1 4, 4 1 4 1     |
| 21 | 10, 20, 30, 40, 50, 60, 70            | 1 1 1 1 2 2<br>1 4 1 4, 4 1 4 1     |
| 22 | 23, 5678, 2, 564, 365, 77,443         | 1 1 1 2 0 2 0<br>0 1 0 1, 3 0 3 0   |
| 23 | 88, 112, 6467, 325, 878, 3, 77, 8, 99 | 2 5 2 5 1 2 1 2<br>2 2 2 2, 0 1 0 1 |
| 24 | 12, 13, 14, 15, 16, 17, 18, 19, 20    | 2 1 2 1 1 2 2<br>1 3 1 3, 3 1 3 1   |
| 25 | 99, 88, 77, 66, 55, 44, 33, 22, 11    | 1 2 1 2 1 0 1 0<br>3 4 3 4, 0 1 0 1 |
| 26 | 34, 45, 56, 67, 78, 89                | 1 0 1 0 1 2 1 2<br>1 4 1 4, 0 1 0 1 |
| 27 | 90, 76, 54, 23, 56, 12, 48            | 1 2 1 2 1 1 1 1<br>3 1 3 1, 0 2 0 2 |
| 28 | 77, 12, 74, 34, 56, 78, 234, 678      | 1 1 1 1 1 2 1 2<br>1 4 1 4, 4 1 4 1 |
| 29 | 123, 123, 123, 123, 456, 321, 1       | 1 1 1 1 1 2 1 2<br>1 4 1 4, 4 1 4 1 |
| 30 | 0, 3, 5, 7, 11, 13                    | 1 1 1 2 0 2 0<br>0 1 0 1, 3 0 3 0   |