Problem Set 1

- 1. Implement two functions multiply(int, int) and multiply(int, int, int) to return a multiplication of the input argument values.
- 2. Implement multiply(array2D, array2D) to implement matrix multiplication.
- 3. Create a class Matrix in which implement all the above versions of multiply() using operator *.
- 4. Derive another class DiagonalMatrix from Matrix and implement multiply(DiagonalMatrix) which multiplies *this* matrix with the argument matrix.
- 5. Implement the last multiply() using operator *.
- 6. Print the matrix M using cout << M.