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\* Class:matrix\_Multiplication ExPrj Pg.35.5 Author: Yin Linhai

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\* A program that multiplies 2 set matrixes

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\* Course:Computer Science 201Teacher:Mr Blakey

\* School:Sir Winston Churchill High School, Calgary, Alberta, Canada

\* Language: Java SE 7.0Target Operating System: Java Virtual Machine

\* System:Intel Celeron 3GHz running under Windows 7 IDE: Eclipse 4.2

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**package** matrix\_Multiplication;

**public** **class** Multiplication {

**public** **static** **void** main(String[] args) {

**int**[][] array1;

**int**[][] array2;

**int**[][] array3;

array1 = **new** **int**[][] { {1,2,3},

{4,5,6},

{7,8,9} };

array2 = **new** **int**[][] { {9,8,7},

{6,5,4},

{3,2,1} };

array3 = **new** **int**[array1.length][array2[0].length];

**if**(array1[0].length==array2.length) {

**for**(**int** x = 0; x<array1.length; x++) {

**for**(**int** z = 0; z<array2[x].length; z++) {

**int** add = 0;

**for**(**int** y = 0; y<array2.length; y++) {

add += array1[x][y]\*array2[y][z];

}

array3[x][z] = add;

}

}

}

**for**(**int** x = 0; x<array3.length; x++) {

**for**(**int** y = 0; y<array3[x].length; y++) {

System.*out*.print(array3[x][y] + " ");

}

System.*out*.println("");

}

}

}

**Output:**

30 24 18

84 69 54

138 114 90

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