Matrix multiplication in c .

#include <stdio.h>

#define ROWS1 3

#define COLS1 2

#define ROWS2 2

#define COLS2 4

int main() {

int matrix1[ROWS1][COLS1] = {{1, 2},

{3, 4},

{5, 6}};

int matrix2[ROWS2][COLS2] = {{7, 8, 9, 10},

{11, 12, 13, 14}};

int result[ROWS1][COLS2];

// Perform matrix multiplication

for (int i = 0; i < ROWS1; i++) {

for (int j = 0; j < COLS2; j++) {

int sum = 0;

for (int k = 0; k < COLS1; k++) {

sum += matrix1[i][k] \* matrix2[k][j];

}

result[i][j] = sum;

}

}

// Print the resulting matrix

printf("The result of matrix multiplication is:\n");

for (int i = 0; i < ROWS1; i++) {

for (int j = 0; j < COLS2; j++) {

printf("%d ", result[i][j]);

}

printf("\n");

}

return 0;

}

