//Gaus algorithm

for (int a = 0; a < n; a++)

{

//gets diagonal element

float dElement = matrix[a][a];

//divide the whole row by its diagonal element

for (int x = 0; x < n + 1; x++)

{

matrix[a][x] = matrix[a][x] / dElement;

}

// //make the elements over and under the diagonal one zeros

// for (int i = 0; i < n; i++) {

// float toZero = matrix[i][a];

// for (int j = 0; j < n + 1; j++)

// {

// if (i == a)break;

// matrix[i][j] = matrix[i][j] - matrix[a][j] \* toZero;

// }

// }

// make the elements under the diagonal one zeros

for (int i = a + 1; i < n; i++)

{

float toZero = matrix[i][a];

for (int j = 0; j < n + 1; j++)

{

//multiplying currrent pivot row (a) by first element

//of current iteration row and subtract it from all

//elements on current iteration row (i)

matrix[i][j] = matrix[i][j] - matrix[a][j] \* toZero;

}

}

}

