void fasttrans(matrix \*\*matA, matrix \*\*matB, int col)

{

int rowterm[10] = {0};

int startingpos[col];

int i,j;

matB[0].row = matA[0].col;

matB[0].col = matA[0].row;

matB[0].value = matA[0].value;

if(matA[0].value > 0){

for(i = 1; i < matA[0].value; i++)

rowterm[matA[i].col]++;

startingpos[0]=1;

for(i = 1; i < matA[0].col; i++)

startingpos[i] = startingpos[i-1] + rowterm[i-1];

for(i = 1; i <= matA[0].value; i++){

j = startingpos[matA[i].col]++;

matB[j].row = matA[j].col;

matB[j].col = matA[j].row;

matB[j].value = matA[j].value;

}

}

}

