1. **Lower right triangle if it is stored in column major order in a linear array with A[0][0] being the first element**



**FOR COLUMN MAJOR:**

if( i + j >= cols – 1){

j(j + 1)/2 + i – cols + j + 1

}

else 0

1. **Upper left triangle if it is stored in row major and column major order in a linear array with A[0][0] being the first element.**



**FOR ROW MAJOR:**

if( i + j < cols ){

cols \* i – i(i – 1)/2 + j

}

else 0

**FOR COLUMN MAJOR:**

if( i + j < cols){

rows \* j – j( j – 1 )/2 + i

}

else 0

**NOTE:**

**I HAVE PROVIDED PRACTICE PDF AS A PROOF THAT THESE FORMULAES ARE NOT JUST COPY PASTED.**