

$\overline{x} \times 00$  (i) 3

$00 \times x$  (ii) 1, 1, 1, 1, 1, 1, 2

$x \times 00$

$x \times x x$

$\overline{0} \times 0 \times$  (i) 1+2, 1+2

$x \times 00$  (ii) 1, 1, 2, 1, 1, 2

$0 \times 0 \times$

$x \times x x$

(i) ( $r$  = number of fixed rows,  $c$  = number of fixed columns)  
 $ans = 0$

for ( $i=0, i < r, i++$ ):

$rCount = 0$

for ( $j=c, j < n, j++$ ):

if ( $mat[i][j] == x$ )  $rCount++$ ;

if ( $rCount > 0$ ):

$ans = \max(ans, c - i + rCount)$

for ( $j=0, j < c, j++$ ):

$cCount = 0$

for ( $i=r, i < n, i++$ ):

if ( $mat[i][j] == x$ )  $cCount++$ ;

if ( $cCount > 0$ ):

$ans = \max(ans, r - j + cCount)$

return  $ans$

(ii) ( $r$  = number of fixed rows,  $c$  = number of fixed columns)

$ans = 0$

for ( $i=r, i < n, i++$ ):

$count = 0$

for ( $j=0, j < n, j++$ ):

if ( $mat[i][j] == x$ )  $count++$

$ans = \max(ans, (count+1)/2)$

for ( $j=c, j < n, j++$ ):

$count = 0$

for ( $i=0, i < n, i++$ ):

if ( $mat[i][j] == x$ )  $count++$

$ans = \max(ans, (count+1)/2)$

return  $ans$