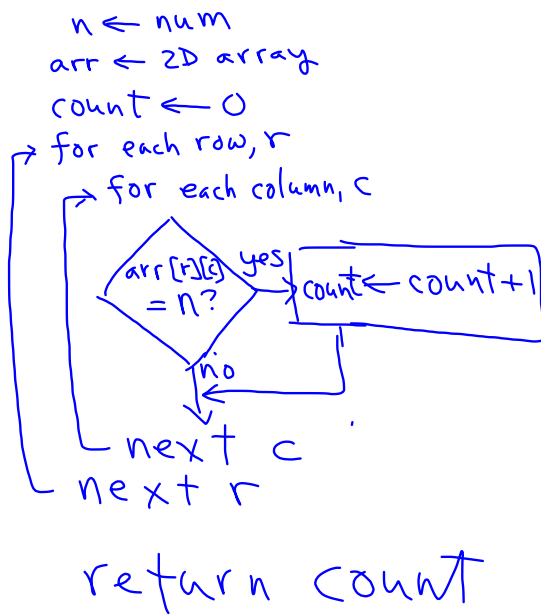


Algorithms

1. Count number of times value "num" occurs in a 2D array of int



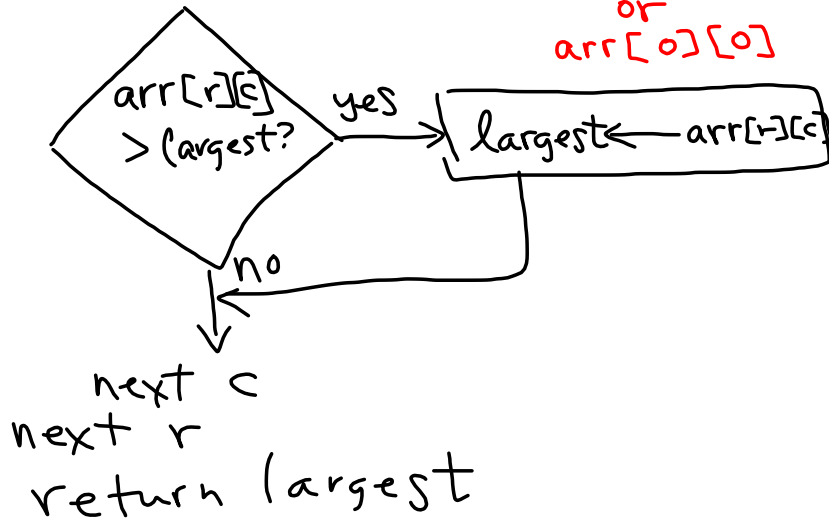
2. Get largest value in a 2D array of int

largest ← some # ≤ some value in array

for each row, r
for each column, c

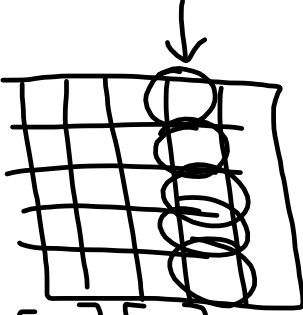
Java: Integer.MIN_VALUE

or arr[0][0]



3. get total of values
in column "col" of
2D array of int col

$c \leftarrow \text{col}$
 $\text{sum} \leftarrow 0$
 for each row, r



$\text{sum} \leftarrow \text{sum} + \text{arr}[r][c]$
 next r
 return sum

4. get total of values
in row "row" of a
2D array of int

$r \leftarrow \text{row}$
 $\text{sum} \leftarrow 0$
 for each col, c

$\text{sum} \leftarrow \text{sum} + \text{arr}[r][c]$
 next c
 return sum