

## Pseudocode for Median Finding

Set  $n$  : number of values input

if  $n$  is odd

Set  $t = \frac{n+1}{2}$

return  $t$ -th minimum

else

Set  $t = \frac{n}{2}$

Set  $s = t+1$

Return  $\frac{t\text{-th min} + s\text{-th min}}{2}$

Pseudocode to find  $t$ -th minimum in values [ ]

values are given &  $t$  is given

double minValue =  $\infty$

int minIndex

boolean[] pin = [false ... false] of size values

for count = 0, count < t, count++

for i = 0 to size of values {

Reset minValue to  $\infty$

if (values[i] < minValue && pin[i] is false)

minValue = values[i]

minIndex = i

}

pin[minIndex] = true

}