

## Array-3

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### Majority element

{ 1, 2, 2, 1, 1, 1 } ;  $n = 7$

Count = 0

Candidate = 0

num = 1

Count = 0  $\rightarrow$  candidate = num = 1

num = candidate = 1  $\rightarrow$  Count = 0 + 1 = 1

num = 2

num  $\neq$  candidate  $\rightarrow$  Count = 1 - 1 = 0

num = 2

Count = 0  $\rightarrow$  cand. = num

num = cand.  $\rightarrow$  count = 0 + 1 = 1

num = 2

num = candidate  $\rightarrow$  count = 1 + 1 = 2

num = 1

num  $\neq$  candidate

$\rightarrow$  count = 2 - 1 = 1

num = 1

num  $\neq$  candidate

$\rightarrow$  count = 1 - 1 = 0

num = 1

Count = 0  $\rightarrow$  cand. = num

cand. = num  $\rightarrow$  Count = 0 + 1 = 1

Loop end

Selection candidate  $\rightarrow$  1