

Team MagicSort

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HMB3

O swaps

O Sort algorithm by repeatedly swapping every element with the element of its index - 1

eg $[3, 2, 1]$

$\begin{matrix} 0 & 1 & 2 \\ \downarrow & & \\ [1 & 2 & 3] \end{matrix}$

...

O accesses

1 Go through the array. If the element is not equal to its index + 1, then index + 1 is the missing number.

End time - $O(N)$ runtime, no additional space