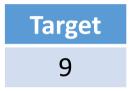
• In linear search, the idea of the algorithm is to iterate across the array from left to right, searching for a specified element.

In pseudocode:

- Repeat, starting at the first element:
 - If the first element is what you're looking for (the target), stop.
 - Otherwise, move to the next element.

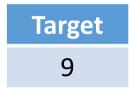




In pseudocode:

Repeat, starting at the first element:

If the first element is what you're looking for (the target), stop.

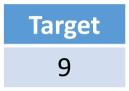




In pseudocode:

Repeat, starting at the first element:

If the first element is what you're looking for (the target), stop.

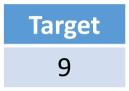




In pseudocode:

Repeat, starting at the first element:

If the first element is what you're looking for (the target), stop.

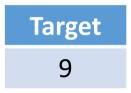




In pseudocode:

Repeat, starting at the first element:

If the first element is what you're looking for (the target), stop.

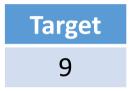




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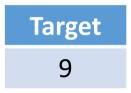




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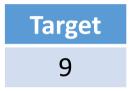




In pseudocode:

Repeat, starting at the first element:

If the first element is what you're looking for (the target), stop.

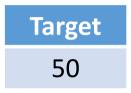




In pseudocode:

Repeat, starting at the first element:

If the first element is what you're looking for (the target), stop.

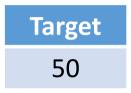




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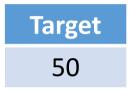




In pseudocode:

Repeat, starting at the first element:

If the first element is what you're looking for (the target), stop.

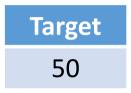




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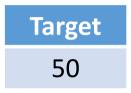




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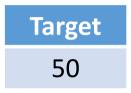




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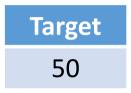




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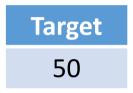




In pseudocode:

Repeat, starting at the first element:

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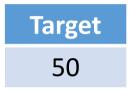




In pseudocode:

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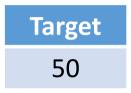




In pseudocode:

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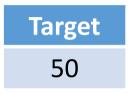




In pseudocode:

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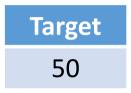




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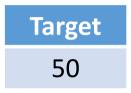




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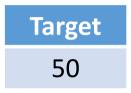




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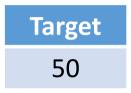




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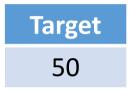




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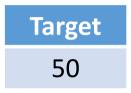




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- Worst-case scenario: We have to look through the entire array of *n* elements, either because the target element is the last element of the array or doesn't exist in the array at all.
- Best-case scenario: The target element is the first element of the array, and so we can stop looking immediately after we start.

O(*n*)

 $\Omega(1)$