Linear Search
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• 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.
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Target

<p>| | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>23</td>
<td>8</td>
<td>14</td>
<td>30</td>
<td>9</td>
<td>6</td>
<td>17</td>
<td>22</td>
<td>28</td>
<td>25</td>
<td>15</td>
<td>7</td>
<td>10</td>
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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.
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$O(n)$
$\Omega(1)$