

ArrayDeque

Open Data Structures



ArrayDeque

Fast Deque operations using an array

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 - $O(1)$ when $i = 0$, $i = n$, or $i = n - 1$
 - Deque operations in $O(1)$ amortized time

ArrayDeque



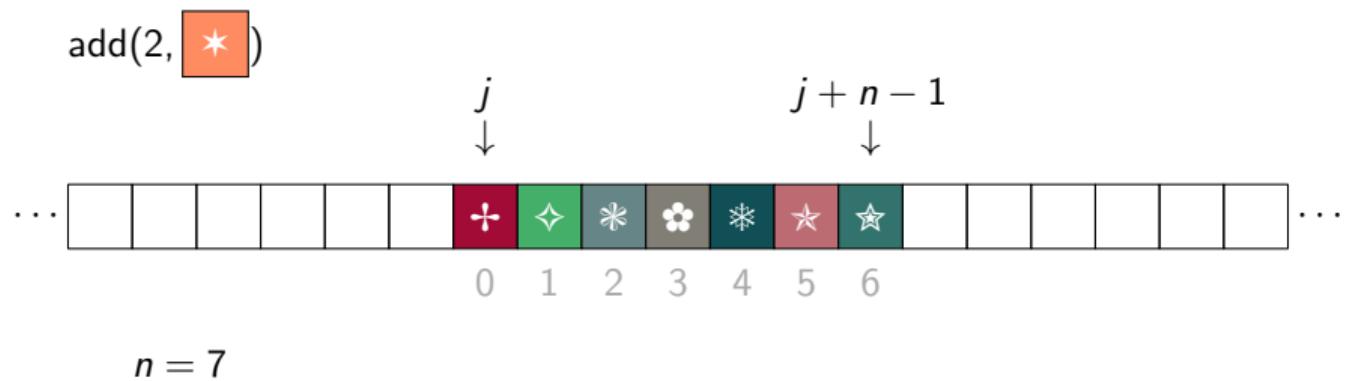
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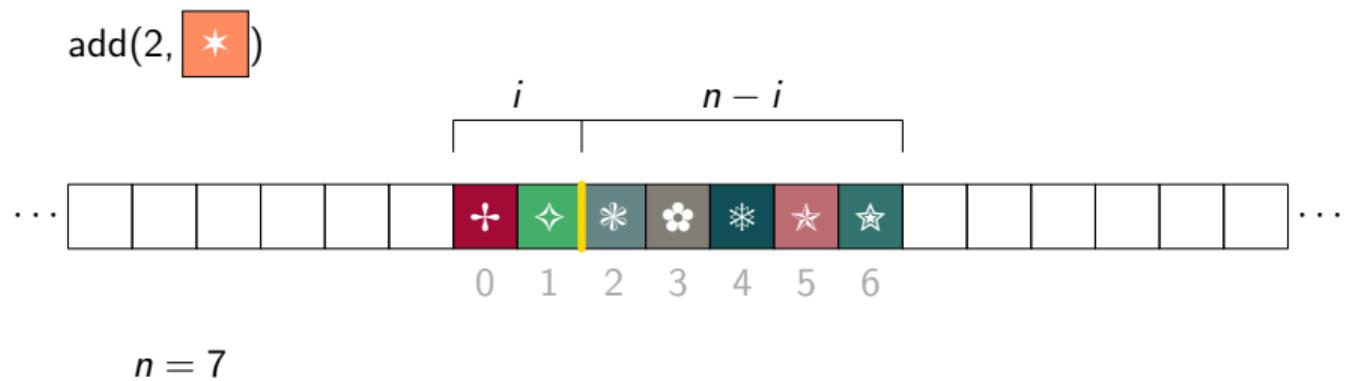
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`add(2, ★)`

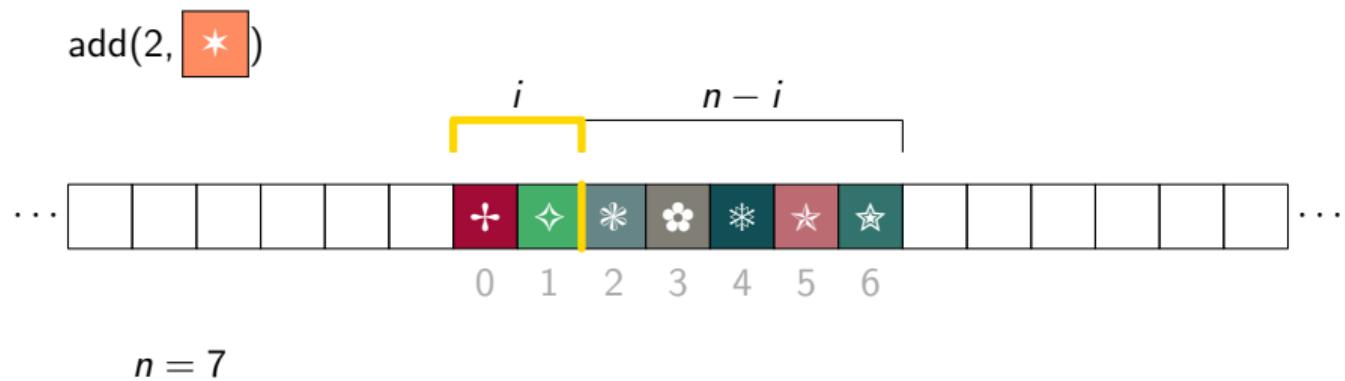


$$n = 7$$

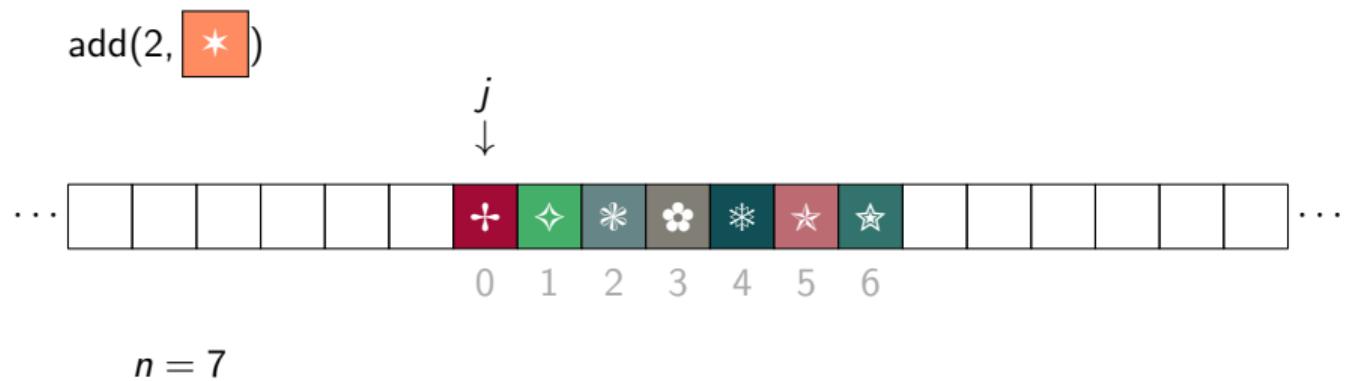
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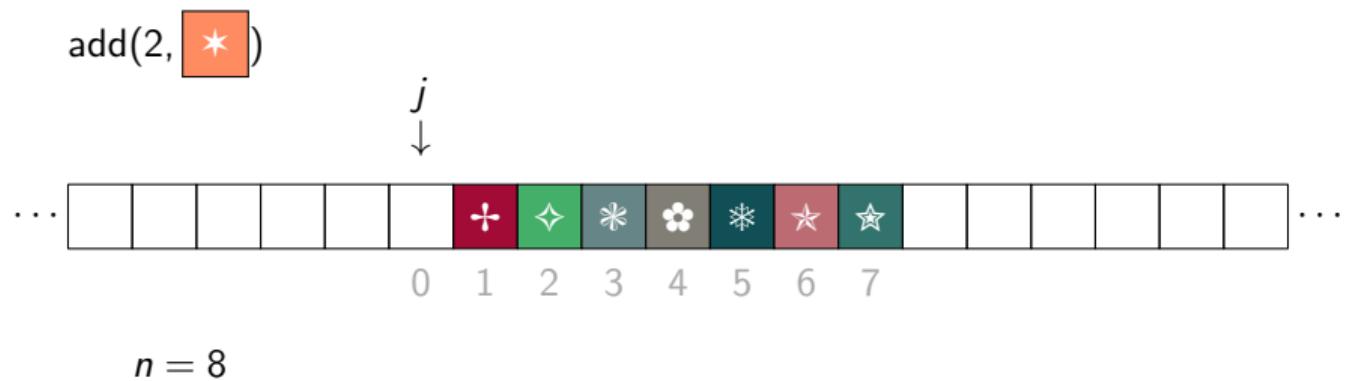
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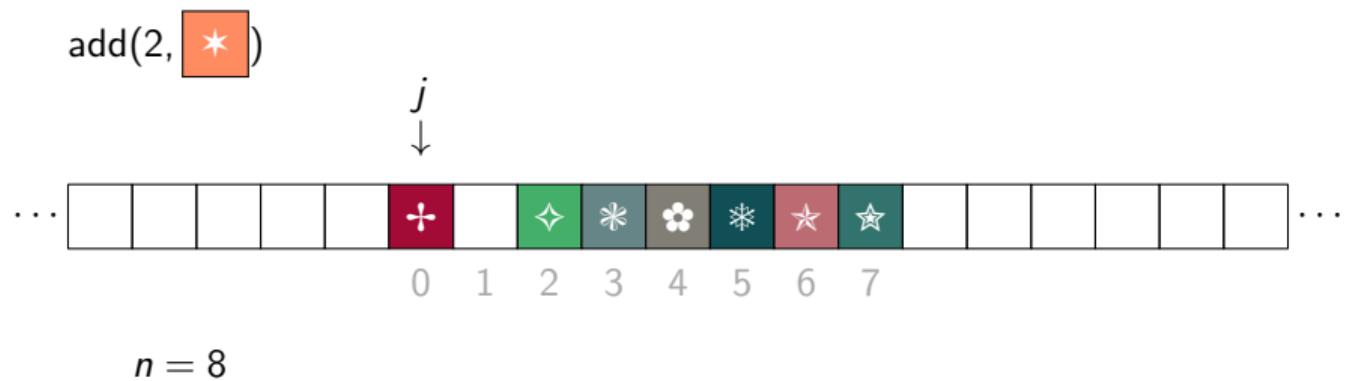
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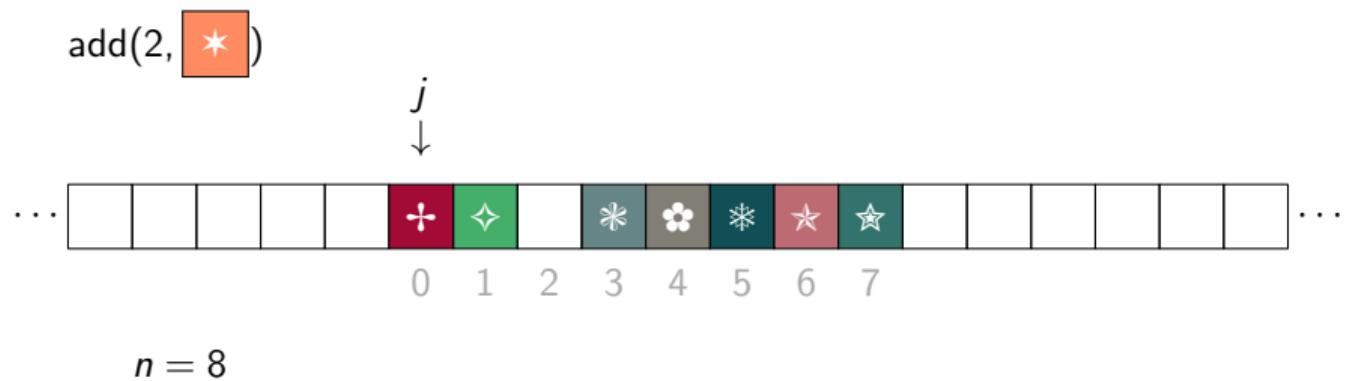
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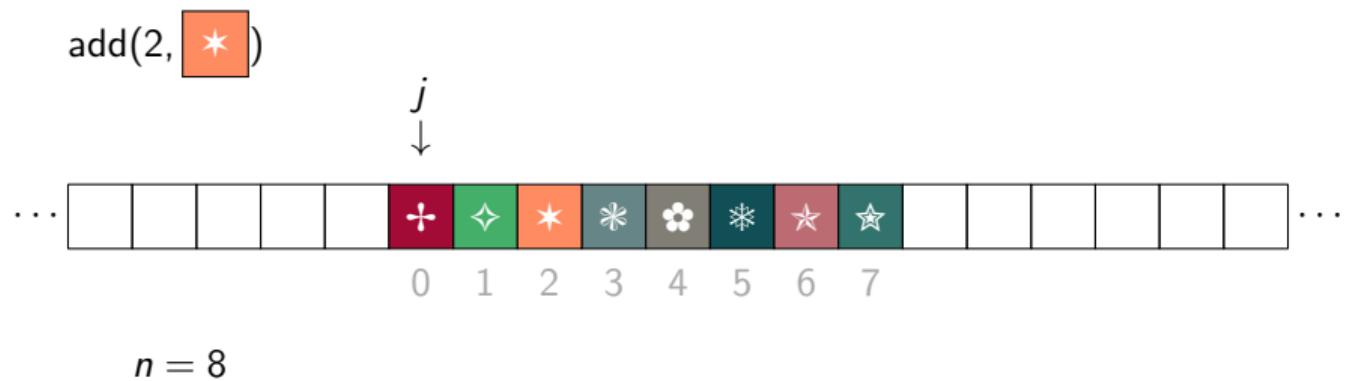
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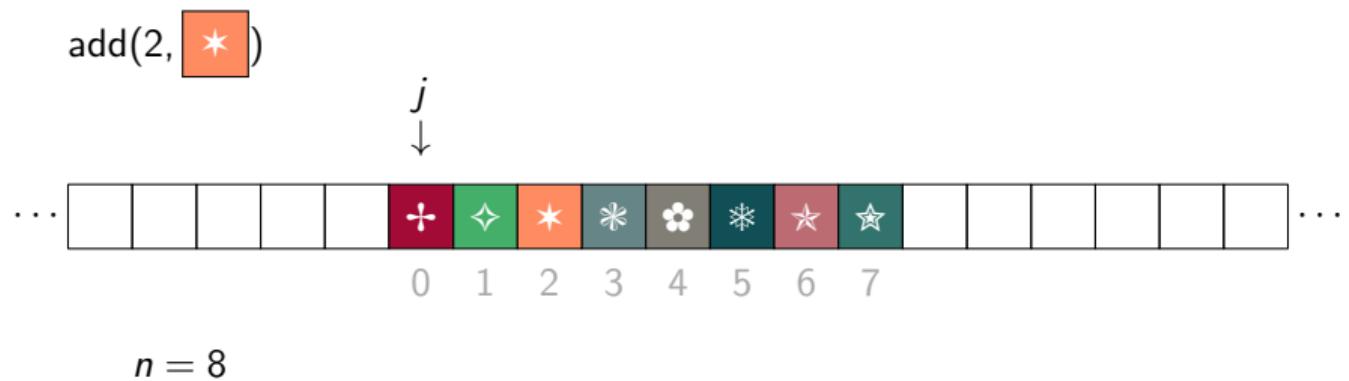
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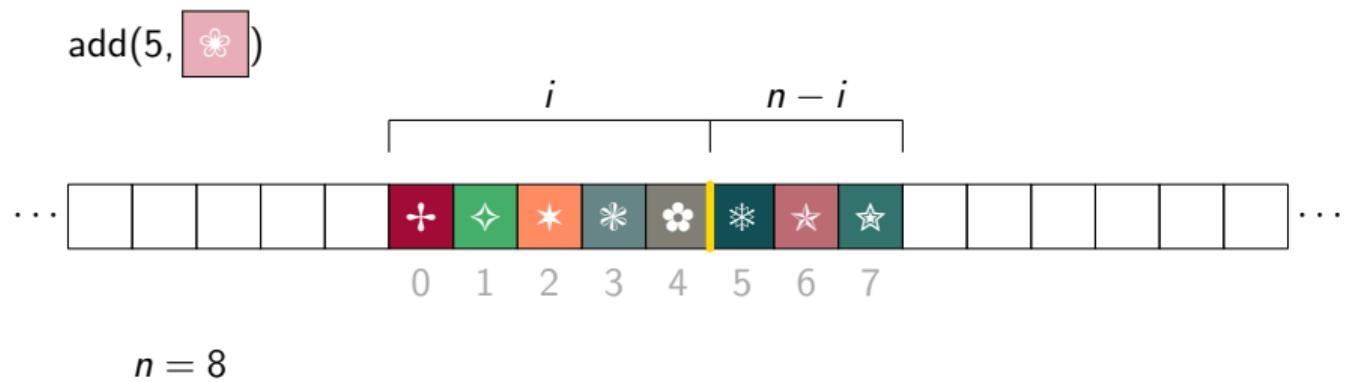
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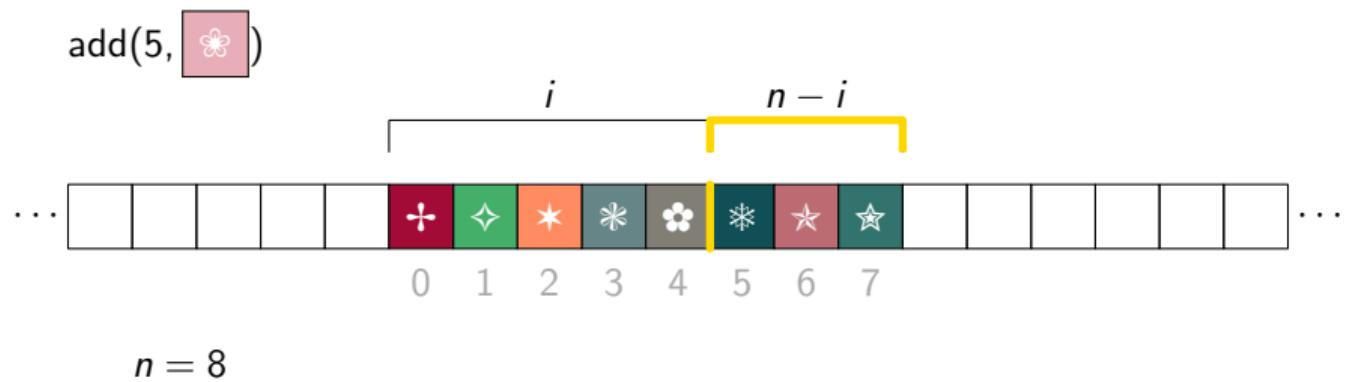
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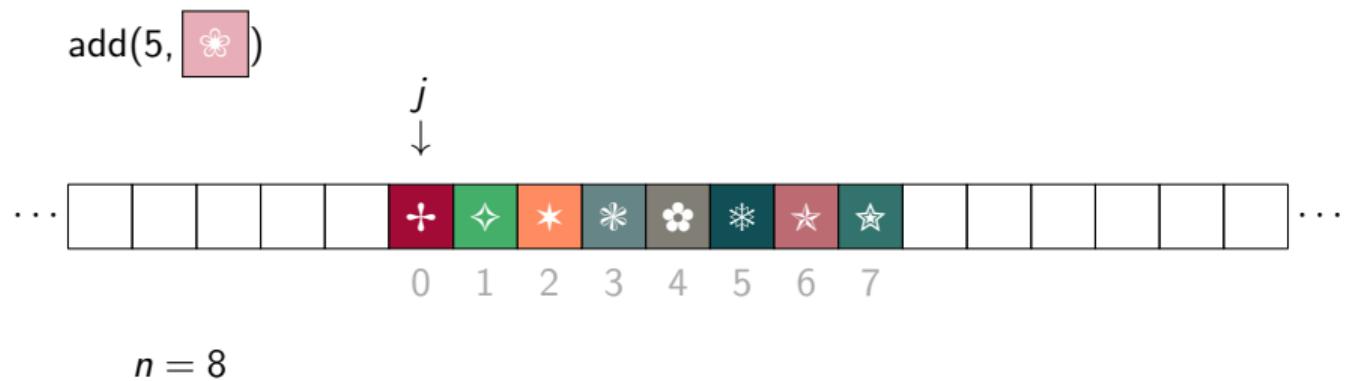
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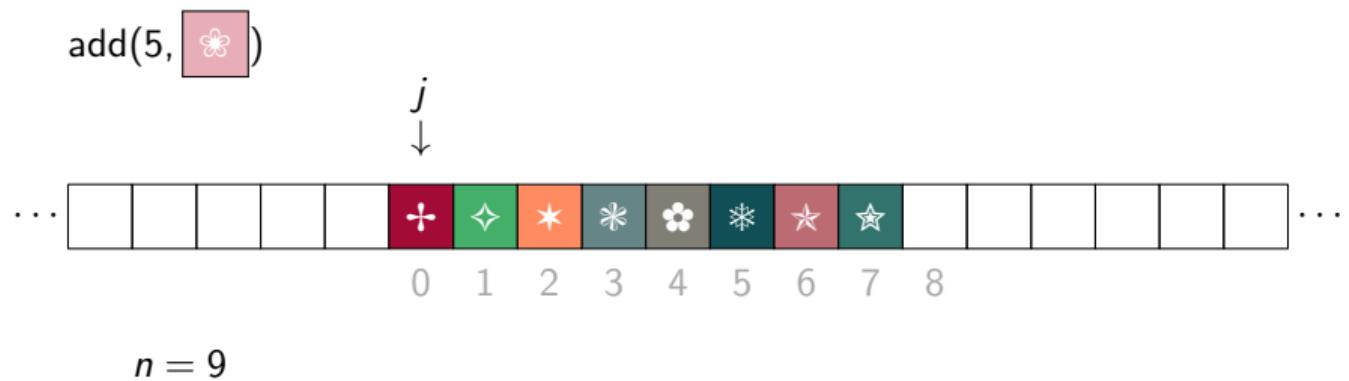
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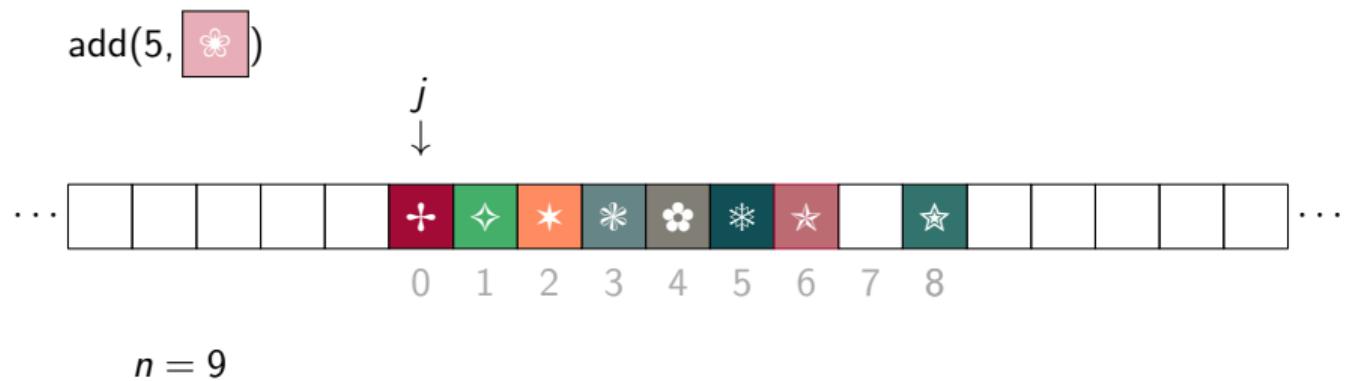
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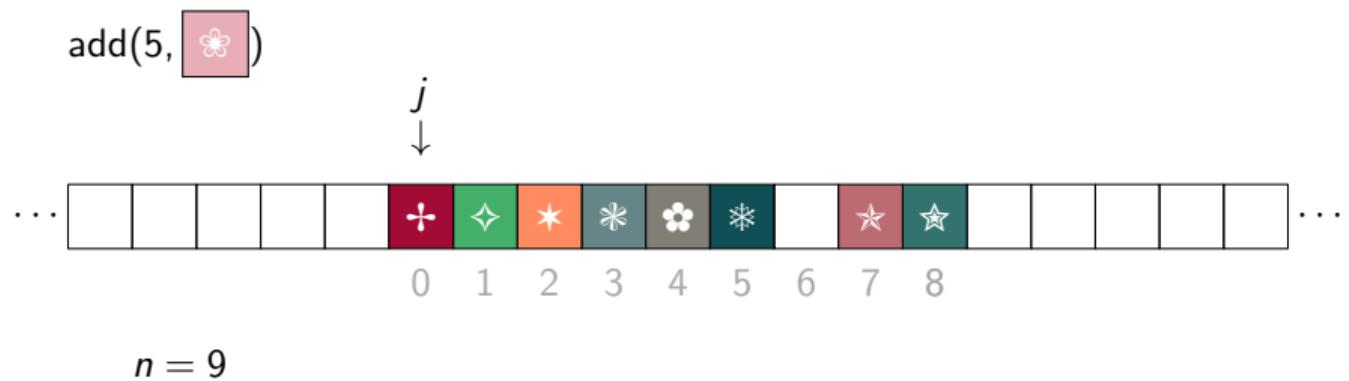
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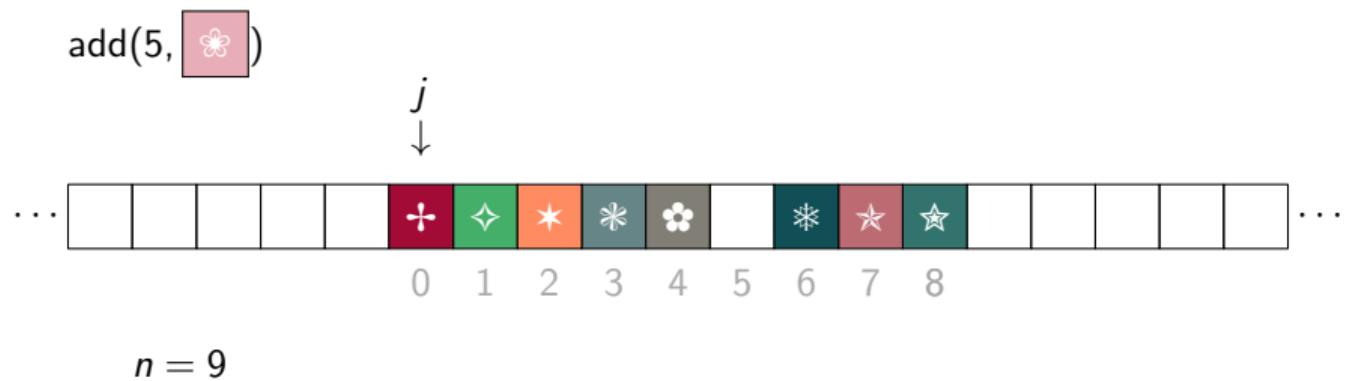
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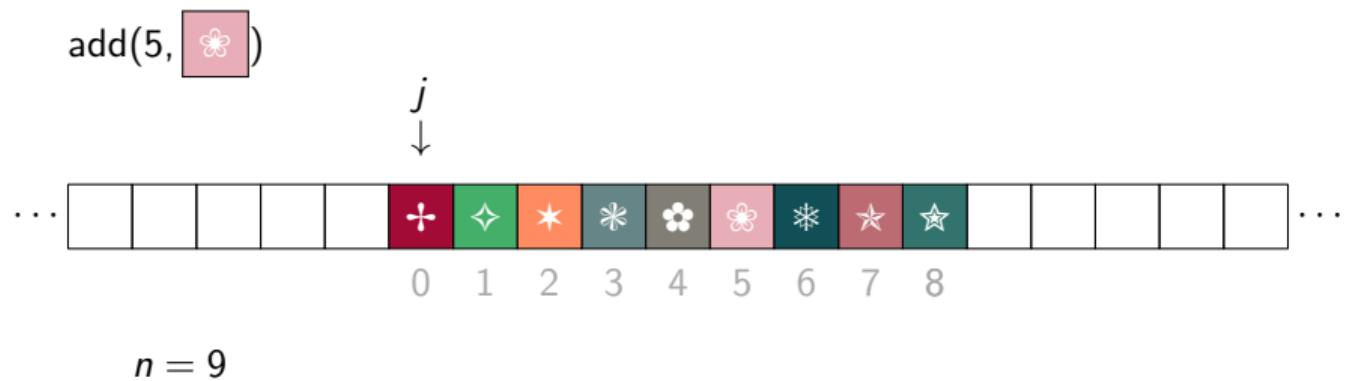
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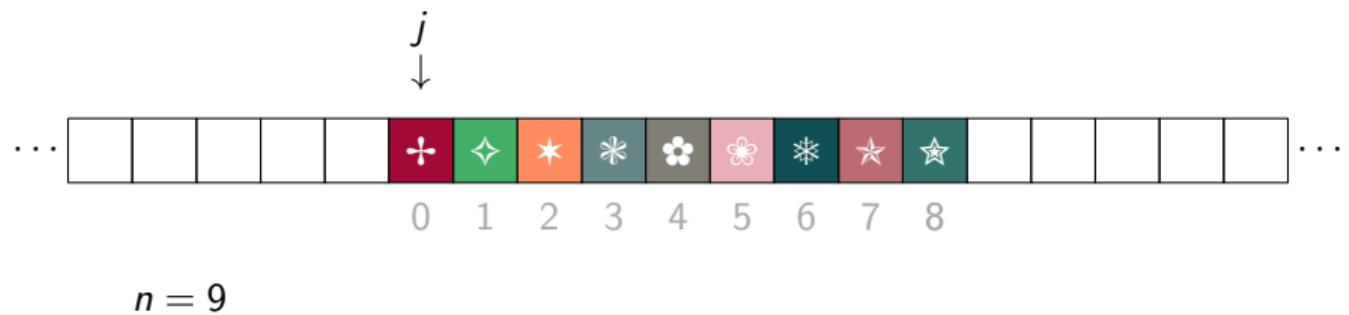
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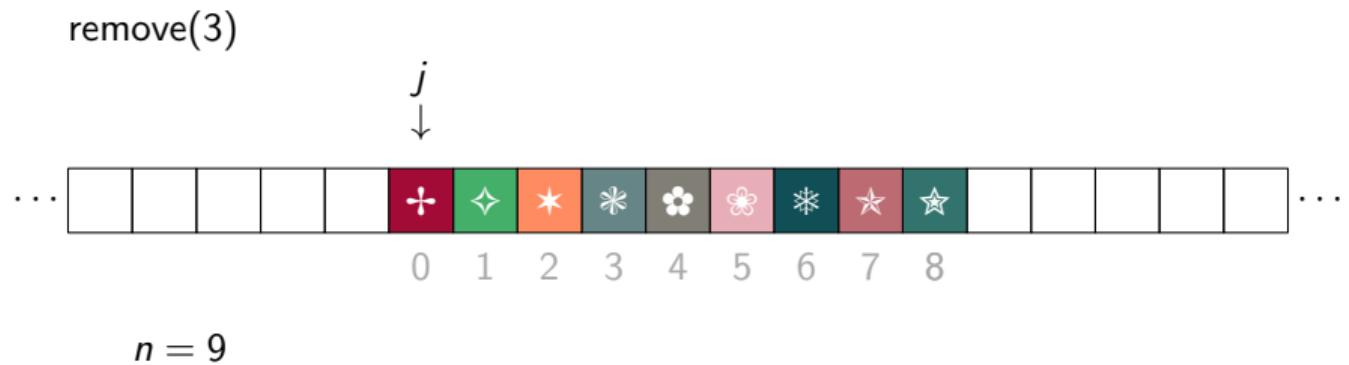
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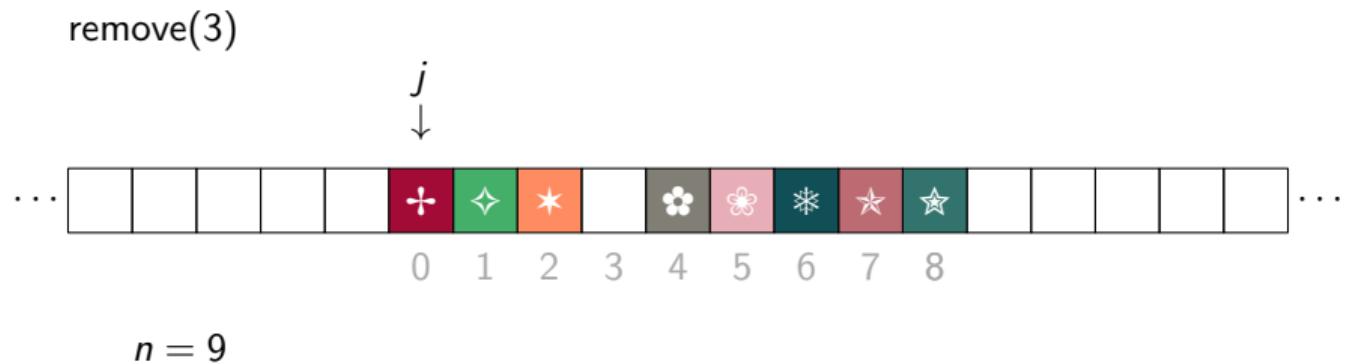
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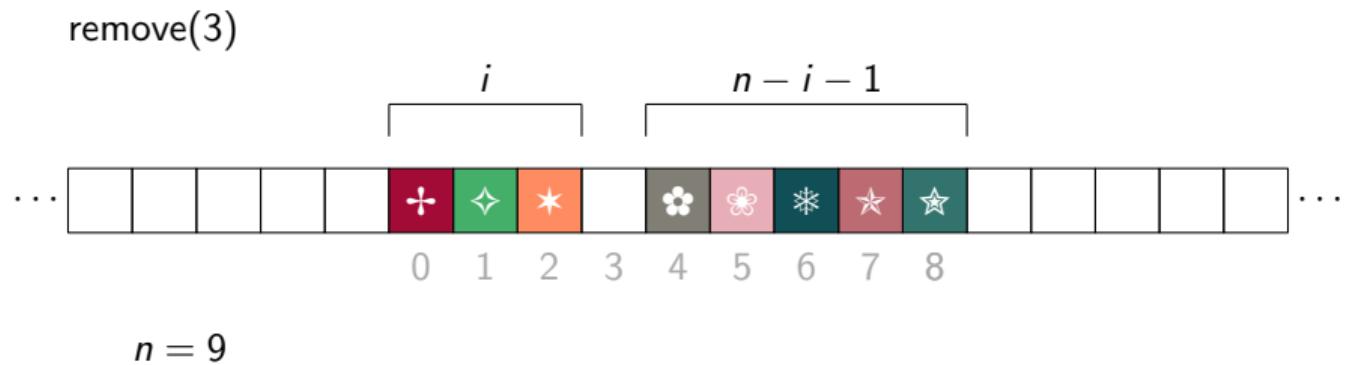
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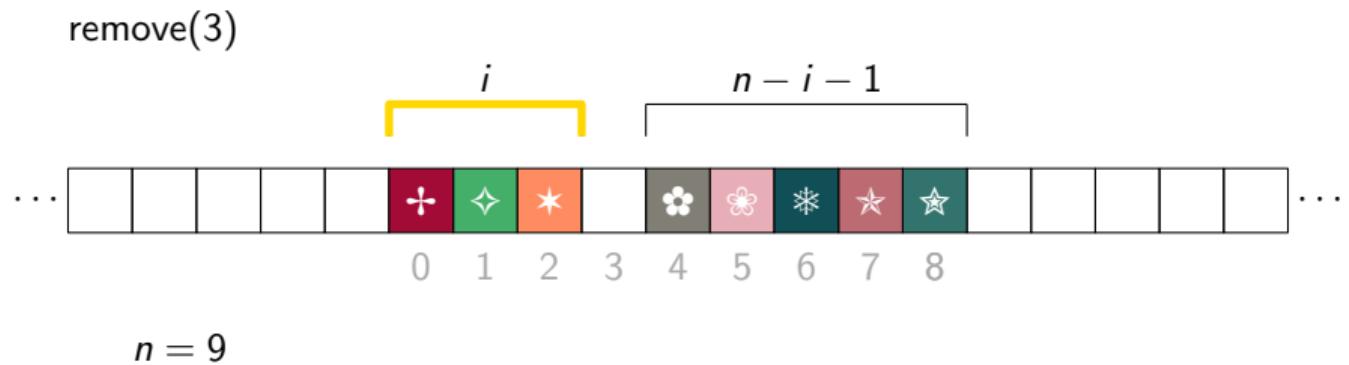
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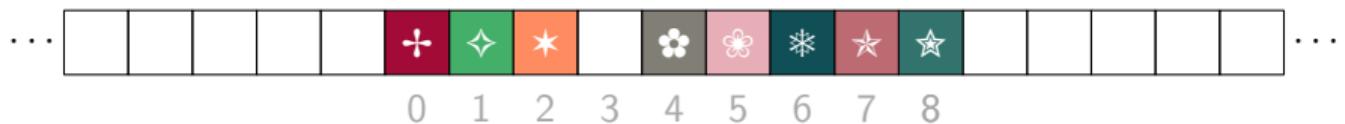


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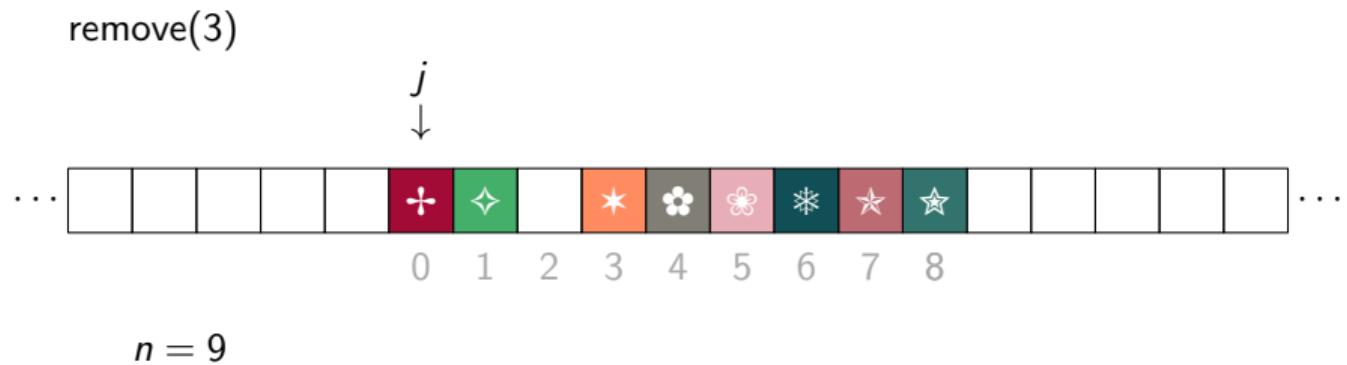
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remove(3)

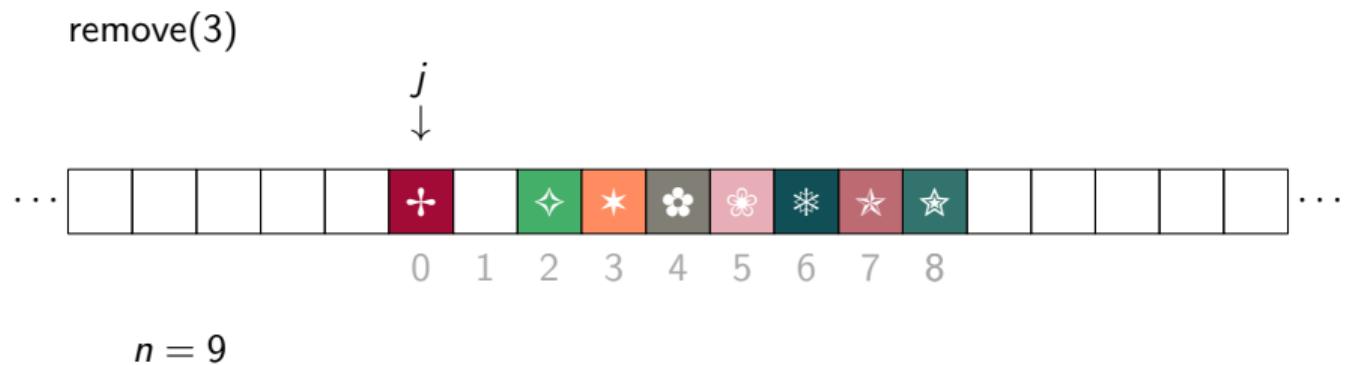


$$n = 9$$

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