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Suppose we had a list of n integers *sorted in ascending order*. How quickly could we check if a given integer is in the list?

Solution

Because the list is sorted, we can use binary search to find the item in $O(\lg n)$ time and $O(1)$ additional space.

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Next up: In-Place Shuffle → (</question/shuffle?course=fc1§ion=combinatorics-probability-math>)

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