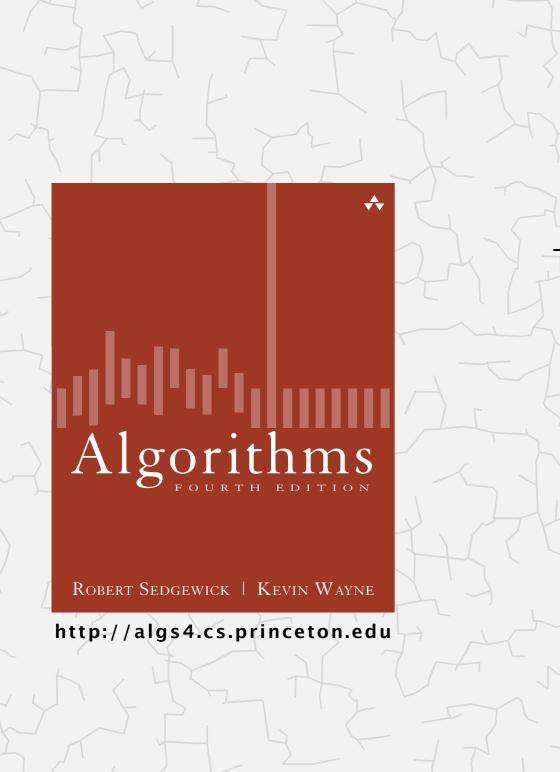
Algorithms



1.4 BINARY SEARCH DEMO

Last updated on 9/19/17 6:53 AM

Goal. Given a sorted array and a key, find index of the key in the array?

Binary search. Compare key against middle entry.

- Too small, go left.
- Too big, go right.
- Equal, found.

successful search for 33

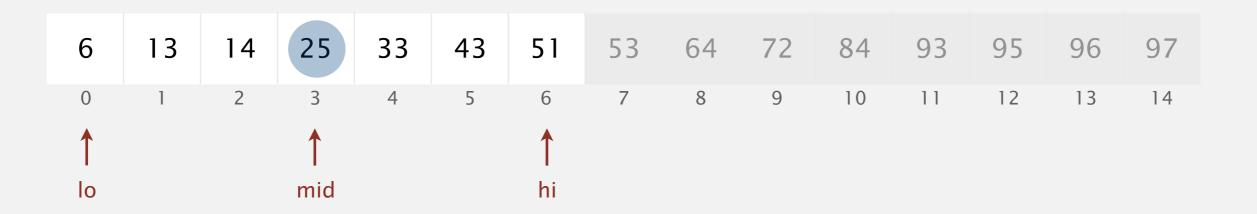


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- Too big, go right.
- Equal, found.

successful search for 33

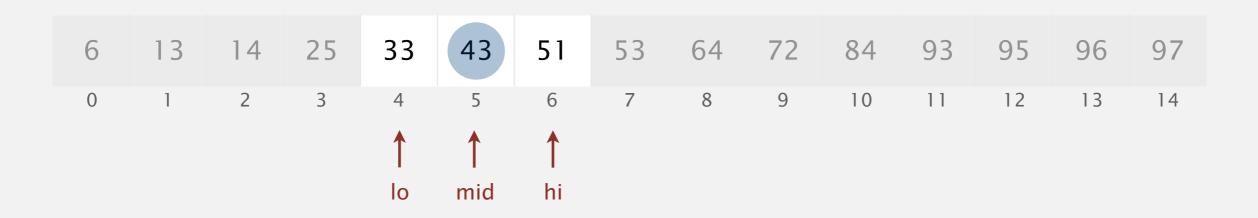


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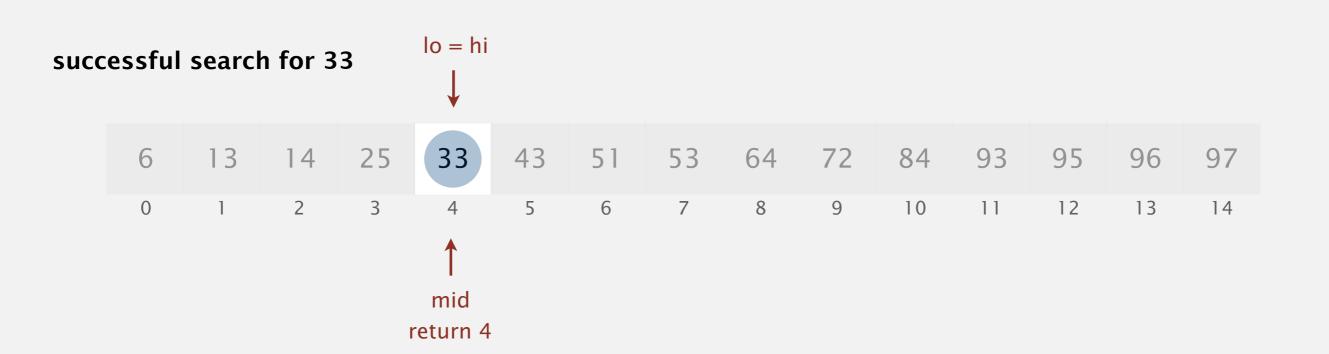
successful search for 33



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Goal. Given a sorted array and a key, find index of the key in the array?

Binary search. Compare key against middle entry.

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- Too big, go right.
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unsuccessful search for 34



Goal. Given a sorted array and a key, find index of the key in the array?

Binary search. Compare key against middle entry.

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- Too big, go right.
- Equal, found.

unsuccessful search for 34



Goal. Given a sorted array and a key, find index of the key in the array?

Binary search. Compare key against middle entry.

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- Too big, go right.
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unsuccessful search for 34



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