

## Session 18

# Strategy 2: Decrease-and-Conquer

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### Lecture Summary

#### Variable-Size Decrease

1. Interpolation search: similarity to binary search, difference
2. Searching binary trees
3. Compare binary, interpolation, binary search trees, and sequential search
4. ~~Game of Nim not included in course~~

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### Session Exercise

P13. Code the interpolation search algorithm.

#### Detailed instructions

- Write pseudocode for interpolation search. (Hint: use binary search as template.)
- Check that your code works using a large array of integers.

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### Reading List

 4.5

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### Keywords

Interpolation