

## Top-20 Training Program (Divide & Prune Thinking)

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Apply the solution building strategies discussed in class to solve following problems.

### Group1: Smart Search

<https://leetcode.com/problems/guess-number-higher-or-lower/description/>  
<https://leetcode.com/problems/first-bad-version/description/>  
<https://leetcode.com/problems/sqrtx/description/>  
<https://leetcode.com/problems/median-of-two-sorted-arrays/description/>

### Group2: Search for a Range

<https://leetcode.com/problems/search-insert-position/description/>  
<https://leetcode.com/problems/search-for-a-range/description/>

### Group3: Find Peak Element

<https://leetcode.com/problems/find-peak-element/description/>

### Group4: Rotated Sorted Array Problems

<https://leetcode.com/problems/find-minimum-in-rotated-sorted-array/description/>  
<https://leetcode.com/problems/find-minimum-in-rotated-sorted-array-ii/description/>  
<https://leetcode.com/problems/search-in-rotated-sorted-array/description/>  
<https://leetcode.com/problems/search-in-rotated-sorted-array-ii/description/>

### Group5: Search a 2D Matrix

<https://leetcode.com/problems/search-a-2d-matrix/description/>  
<https://leetcode.com/problems/search-a-2d-matrix-ii/description/>

### Group6: Competition Problems

<http://poj.org/problem?id=3122>  
<http://poj.org/problem?id=1035>