Модуль 1

1. **Простые алгоритмы и базовые структуры данных**
2. Алгебраические алгоритмы  
   Фибоначчи: <https://leetcode.com/problems/n-th-tribonacci-number/>

Модуль 2

1. **Алгоритмы сортировки**
2. Тема 8. **Быстрая и внешняя сортировка  
   QuickSelect:** [**https://leetcode.com/problems/kth-largest-element-in-an-array/**](https://leetcode.com/problems/kth-largest-element-in-an-array/)
3. Тема 9. **Линейная сортировка  
   BucketSort:** [**https://leetcode.com/problems/maximum-gap/**](https://leetcode.com/problems/maximum-gap/)

Модуль 3

1. **Деревья поиска**
2. Тема 10. **Двоичные деревья поиска АВЛ  
   Binary Tree:** [**https://leetcode.com/problems/maximum-depth-of-binary-tree/**](https://leetcode.com/problems/maximum-depth-of-binary-tree/) **Binary Tree:** [**https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inorder-traversal/**](https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inorder-traversal/)

Модуль 4

1. **Хеш-таблицы**
2. **Тема 13. Хэш-функции и хэш-таблицы**[**https://leetcode.com/problems/letter-combinations-of-a-phone-number/**](https://leetcode.com/problems/letter-combinations-of-a-phone-number/)
3. [**https://leetcode.com/problems/word-break/**](https://leetcode.com/problems/word-break/)

**Модуль 5**

1. **Теория графов**
2. **Тема 18. Поиск и сортировка**[**https://leetcode.com/problems/find-if-path-exists-in-graph/**](https://leetcode.com/problems/find-if-path-exists-in-graph/)[**https://leetcode.com/problems/find-the-town-judge/**](https://leetcode.com/problems/find-the-town-judge/)[**https://leetcode.com/problems/all-paths-from-source-to-target/**](https://leetcode.com/problems/all-paths-from-source-to-target/)

Модуль 6

1. **Алгоритмы на строках**

<https://leetcode.com/problems/longest-substring-without-repeating-characters/>

Модуль 7

1. **Динамическое программирование**

<https://leetcode.com/problems/sort-integers-by-the-power-value/>

<https://leetcode.com/problems/number-of-good-ways-to-split-a-string/>

<https://leetcode.com/problems/minimum-falling-path-sum/>

Модуль 8

1. **Олимпиадное программирование**

<https://leetcode.com/problems/minimum-cost-for-tickets/>

Модуль 9

1. **Вероятностные алгоритмы**