

bit.ly/segment-trees

Range Query + Point Updates

Basics

 Segment Trees Series | Basics of Segment Trees

After watching the video, please try the problems yourself first before looking into solutions.

Practice Problems

1. [HackerEarth] [Finding Range Minimum](#)
2. [Codeforces] [339D Xenia and Bit Operations](#)
3. [HackerEarth] [Range MOD Query](#)
4. [HackerEarth] [Incremental queries](#)
- 5.

Queries on Prefix of Array

 Segment Trees Series | Queries on prefix of array | 57E Enemy is Weak

After watching the video, please try the problems yourself first before looking into solutions.

Practice Problems

1. [Codeforces] [61E Enemy is Weak](#)
2. [Codeforces] [459D Pashmak and Parmida's problem](#)
3. [Leetcode] [Longest Increasing Subsequence - NlogN](#)
4. [Spoj] [DOSA](#)
5. [Spoj] [HMLIS - How Many LIS](#)
6. [Leetcode] [2736. Maximum Sum Queries](#)
7. **[Leetcode] 2926. Maximum Balanced Subsequence Sum (Hard)**
8. [ICPC] [BEAUTPAR - Beautiful Partitions](#)
9. [Spoj] [ONEXLIS - One X LIS](#)

Solutions

1.  Segment Trees Series | Part 3 | Solving Codeforces problem "Enemy is Weak"
2.  Segment Trees Series | Part 4 | Solving Codeforces problem "Pashmak and Pa..."

3. [Segment Trees Series | Part 5 | Longest Increasing Subsequence - LIS](#)
4. [Exactly similar to 3]
5. [Segment Trees Series | Part 6 | Solving Spoj problem "HMLIS - HowManyLis"](#)
6. [Similar to above]
7. [2926. Maximum Balanced Subsequence Sum | Weekly Leetcode 370](#)

Binary Search

- [Segment Trees Series | Part 7 | Binary Search using Segment Trees](#)

After watching the video, please try the problems yourself first before looking into solutions.

Practice Problems

1. [Leetcode] [Sliding Subarray Beauty](#)
2. [Leetcode] [Minimum Number of Operations to Make All Array Elements Equal to 1](#)
- 3.

Solutions

1. [Segment Trees Series | Part 8 | Binary Search | 2653. Sliding Subarray Beauty](#)
- 2.

Merge Sort Tree

- [Segment Trees Series | Part 9 | Merge Sort Tree \(Why, What and How\)](#)

After watching the video, please try the problems yourself first before looking into solutions.

Practice Problems

1. [SPOJ] [KQUERY - K-query](#)
2. [SPOJ] [GIVEAWAY - Give Away](#)
3. [Leetcode] [2736. Maximum Sum Queries](#)
4. [SPOJ] [MKTHNUM - K-th Number](#)
5. [Codeforces] [216E - Valera and Queries](#)
- 6.

Solutions

1. [Segment Trees Series | Part 10 | Merge Sort Tree - Solving problems - KQUER...](#)
2. [Segment Trees Series | Part 10 | Merge Sort Tree - Solving problems - KQUER...](#)
3. [6473. Maximum Sum Queries | Merge Sort Trees | Segment Tree | Leetcode W...](#)
4. [Segment Trees Series | Part 11 | Merge Sort Tree - MKTHNUM \(K-th Number\)](#)
- 5.

Persistent Segment Trees

▶ Segment Trees Series | Part 12 | Persistent Segment Trees - Introduction

After watching the video, please try the problems yourself first before looking into solutions.

Practice Problems

1. [SPOJ] [KQUERY - K-query](#)
2. [SPOJ] [GIVEAWAY - Give Away](#) (Not solvable using Persistence Segment Trees)
3. [SPOJ] [MKTHNUM - K-th Number](#)
4. [SPOJ] [DQUERY - D-query](#)
5. [SPOJ] [COT - Count on a tree](#)
6. [Codeforces] [D. Persistent Bookcase](#)
7. [SPOJ] [TTM - To the moon](#)
8. [Codeforces] [216E - Valera and Queries](#)
9. [Codeforces] [Problem - 762E - Codeforces](#)
10. [HackerRank] [Kth Number | Morgan Stanley Codeathon 2015 Question | Contests | HackerRank](#)
- 11.

Solutions

1. ▶ Segment Trees Series | Part 13 | Persistent Segment Trees - KQUERY
- 2.

Lazy Propagation

▶ Segment Trees Series | Part 14 | Range Updates | Lazy Propagation

After watching the video, please try the problems yourself first before looking into solutions.

Practice Problems

1. [Codeforces] [C. Circular RMQ](#)
2. [Codechef] [Multiples of 3](#)
3. <https://www.codechef.com/practice-old/tags/lazy-propagation>

Solutions

- 1.