

STL for C++

Resources:

Tutorials:

<https://www.topcoder.com/community/competitive-programming/tutorials/power-up-c-with-the-standard-template-library-part-1/>

<https://www.topcoder.com/community/competitive-programming/tutorials/power-up-c-with-the-standard-template-library-part-2/>

<http://www.cplusplus.com/>

<https://www.hackerearth.com/practice/notes/standard-template-library/>

Problems:

<https://www.hackerearth.com/challenges/competitive/code-monk-c-stl/problems/>

<https://www.hackerrank.com/domains/cpp?filters%5Bsubdomains%5D%5B%5D=stl>

<https://codeforces.com/problemset/problem/782/A>

<https://codeforces.com/problemset/problem/22/A>

<https://codeforces.com/problemset/problem/704/A>

<https://codeforces.com/problemset/problem/4/C>

<https://codeforces.com/problemset/problem/546/C>

<https://codeforces.com/problemset/problem/799/B>

<https://codeforces.com/contest/733/problem/D>

<https://codeforces.com/problemset/problem/1180/c>

<https://codeforces.com/contest/1225/problem/B1>

<https://codeforces.com/contest/1225/problem/B2>

Learning Resources:

- **Asymptotic analysis (Big-O notation)**

- Basic

- youtube.com - [Time complexity of a computer program](#)
 - youtube.com - [Big-O notation in 5 minutes - The basics](#)
 - youtube.com - [Definition Of Big O Notation - Intro to Theoretical Computer Science](#)
 - youtube.com - [Algorithms Lecture 1 -- Introduction to asymptotic notations](#)
 - iarcs.org.in - [Measuring the efficiency of algorithms](#)
 - interactivepython.org - [Particularly for Big-O notation](#)

- Advanced

- rob-bell.net - [A beginner's guide to Big O notation](#)
 - youtube.com - [Big O Notation, Gayle Laakman McDowell](#)
 - web.mit.edu - [Big O notation](#)
 - youtube.com - [Time and space complexity analysis of recursive programs - using factorial](#)
 - [A very nice tutorial with examples](#)

- Practice Problems

- Check some MCQs on space and time complexity [here](#).
- You can see some problems with solutions here: [Time complexity of an algorithm](#)

- **Arrays**

- Resources

- codechef.com - [Data Structure Tutorial: Array](#)
 - cs.cmu.edu - [Arrays](#)
 - geeksforgeeks.org - [Arrays Data Structure](#)

- Practice Problems

- codechef.com - [LECANDY](#), [editorial](#)
 - codechef.com - [CNOTE](#), [editorial](#) ;
 - codechef.com - [SALARY](#), [editorial](#)
 - codechef.com - [CHN15A](#), [editorial](#)
 - codechef.com - [RAINBOWA](#), [editorial](#)
 - codechef.com - [FRGTNLNG](#), [editorial](#)
 - codechef.com - [COPS](#), [editorial](#)

- **Strings**

- Resources

- tutorialspoint.com - [C++ strings](#)
 - guru99.com - [Java strings](#)
 - docs.python.org - [Python strings](#)
 - tutorialspoint.com - [Python strings](#)
 - geeksforgeeks.org - [Many string questions](#)

- Practice Problems

- codechef.com - [CSUB](#), [editorial](#)

- codechef.com - [LAPIN](#), [editorial](#)
- **Stack and Queue**
 - Resources
 - geeksforgeeks.org - [Stack Data Structure](#)
 - geeksforgeeks.org - [Introduction and Array Implementation](#)
 - tutorialspoint.com - [Data Structures Algorithms](#)
 - cs.cmu.edu - [Stacks](#)
 - cs.cmu.edu - [Stacks and Queues](#)
 - cs.cmu.edu - [Stacks and Queues](#)
 - Practice Problems
 - spoj.com - [JNEXT](#)
 - spoj.com - [STPAR](#)
 - spoj.com - [ONP](#)
 - codechef.com - [COMPILER](#)
 - spoj.com - [MMASS](#)
 - spoj.com - [HISTOGRAM](#)
 - codeforces.com - [D. Maximum XOR Secondary](#)
 - spoj.com - [ANARC09A](#)
 - codeforces.com - [C. Minimal string](#)
 - codeforces.com - [B. Alternating Current](#)
 - codeforces.com - [C. Longest Regular Bracket Sequence](#)
- **Heaps (priority queue)**
 - Resources
 - [cs.cmu.edu](#)
 - [eecs.wsu.edu](#)
 - [geeksforgeeks.org](#)
 - [visualgo.net](#)

- iarcs.org.in
- Practice Problems
 - codechef.com - [IPCTRAIN](#), [editorial](#)
 - codechef.com - [ANUMLA](#), [editorial](#)
 - codechef.com - [KSUBSUM](#), [editorial](#)
 - codechef.com - [RRATING](#), [editorial](#)
 - codechef.com - [TSECJ05](#), [editorial](#)
 - spoj.com - [WEIRDFN](#)
 - codechef.com - [CAPIMOVE](#), [editorial](#)
 - spoj.com - [RMID2](#)
 - spoj.com - [LAZYPROG](#)
 - spoj.com - [EXPEDI](#)
 - acm.timus.ru
 - baylor.edu - [Maze Checking and Visualization](#)
 - codechef.com - [MOSTDIST](#), [editorial](#)