

# **CODESHOWS**

## **Winter Module(1<sup>st</sup> year)**

### **Winter Vacation Tips**

- I. Complete All the previous modules Provided by Codeshows.**
- II. Do regular Competitive Coding.**
- III. Take part in every contest on various competitive sites.  
(Codechef,Codeforces,Leetcode)**
- IV. Try to develop some mini project in C++ or Java.You can enhance your skills in Webdev, Android, Machine learning etc.**
- V. Learn basic GitHub and Open Source.**

### **Bonus Links**

**I.**[https://drive.google.com/drive/u/0/folders/0ByWO0aO1eI\\_MN1BEd3VN RUZENKU](https://drive.google.com/drive/u/0/folders/0ByWO0aO1eI_MN1BEd3VN RUZENKU)

**(500 GB Free courses)**

**II.**<https://a2oj.com/>

**( For finding category wise best questions)**

**III.**<https://oeis.org/>

**(For solving any series question)**

**IV.**<https://discuss.codechef.com/t/data-structures-and-algorithms/6599>

**(Enhance your DSA skills)**

**V.**[https://play.google.com/store/apps/details?id=g119.da2016.CodingSchedule&hl=en\\_US](https://play.google.com/store/apps/details?id=g119.da2016.CodingSchedule&hl=en_US)

**( Useful app for coding Schedule)**

**VI.**<https://www.geeksforgeeks.org/computer-science-projects/>

**(Basic project ideas)**

**Everyone must fill this Form :-**

[https://docs.google.com/forms/d/e/1FAIpQLSfStkhBivMID1hR8SwyTTzF2rCSW6JNSbeF43l5cbY6Z-l-uA/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfStkhBivMID1hR8SwyTTzF2rCSW6JNSbeF43l5cbY6Z-l-uA/viewform?usp=sf_link)

# Binary Search

## Resources

- <https://www.topcoder.com/community/competitive-programming/tutorials/binary-search>
- [https://en.wikipedia.org/wiki/Binary\\_search\\_algorithm](https://en.wikipedia.org/wiki/Binary_search_algorithm)

Complexity:

- <https://www.geeksforgeeks.org/complexity-analysis-of-binary-search/>

Lower bound:

- [http://www.cplusplus.com/reference/algorithm/lower\\_bound/](http://www.cplusplus.com/reference/algorithm/lower_bound/)

Upper bound:

- [http://www.cplusplus.com/reference/algorithm/upper\\_bound/](http://www.cplusplus.com/reference/algorithm/upper_bound/)

## Problems

- <https://www.interviewbit.com/courses/programming/topics/binary-search/#problems>

# Stack and queue

## Resources

- <https://www.hackerearth.com/practice/notes/stacks-and-queues/>

## Problems

- <https://www.interviewbit.com/courses/programming/topics/stacks-and-queues/#problems>
- <https://www.hackerearth.com/practice/data-structures/stacks/basics-of-stacks/practice-problems/>
- <https://www.hackerearth.com/practice/data-structures/queues/basics-of-queues/practice-problems/>

# Bit Manipulation

## Resources

- <https://www.hackerearth.com/practice/basic-programming/bit-manipulation/basics-of-bit-manipulation/tutorial/>
- <https://www.topcoder.com/community/competitive-programming/tutorials/a-bit-of-fun-fun-with-bits/>

## Problems

- <https://www.interviewbit.com/courses/programming/topics/bit-manipulation/>
- <https://hackerearth.com/practice/basic-programming/bit-manipulation/basics-of-bit-manipulation/practice-problems/>
- [www.geeksforgeeks.org/bitwise-algorithms/](http://www.geeksforgeeks.org/bitwise-algorithms/)
- <https://www.hackerrank.com/domains/algorithms?filters%5Bsubdomains%5D%5B%5D=bit-manipulation>
- <https://www.geeksforgeeks.org/must-do-coding-questions-for-companies-like-amazon-microsoft-adobe/#bits>

**\*\* MOST IMPORTANT THING \*\***

(:

Maje pure karne hai

:)