

PUNE VIDYARTHI GRIH'S COLLEGE OF ENGINEERING & TECHNOLOGY.



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Competitive Coding



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Competitive Coding

- What is Competitive Coding
 - It is a sport where you need to brainstorm a solution for a given problem statement
 - Usually played to increase problem solving ability or to win prizes
- How will it make you stand out from the crowd
 - Anyone and everyone has some kind of certifications nowadays
 - CC knowledge will never get outdated
- Why do companies seek Competitive Coders
 - Computation is expensive and companies will hire someone who can reduce it for them
- How to get started
 - Have a strong foundation of mathematics (algebra, geometry, permutations and combinations)
 - Gain basic programming knowledge of any language (complete [CS 50](#))
 - Start learning Data Structures and Algorithms
 - Understand Time complexities of different algorithms
 - Be enthusiastic and invest as much time as possible in contests.
- What programming language do I prefer to use and why
 - C++ because of faster execution time

- What books and websites to use
 - a. DS and Algo by Narsimha Karamachi [Download PDF](#) , [Buy on Amazon](#) (can convince college to buy)
 - b. Introduction to Algorithms by T Cormen [Buy on Amazon](#) (available in college library)
- Different types of contest formats
 - a. Short contests
 - b. Long contests
 - c. Point system and Hacking a solution
- How to upsolve
- Various coding competitions
 - a. Google Kickstart, Codejam, Hashcode
 - b. Codevita
- How to become expert in it
 - a. Practice as much possible
 - b. Participate in as many contests as possible
- My personal journey till now
- [William Lin winning Kickstart](#)