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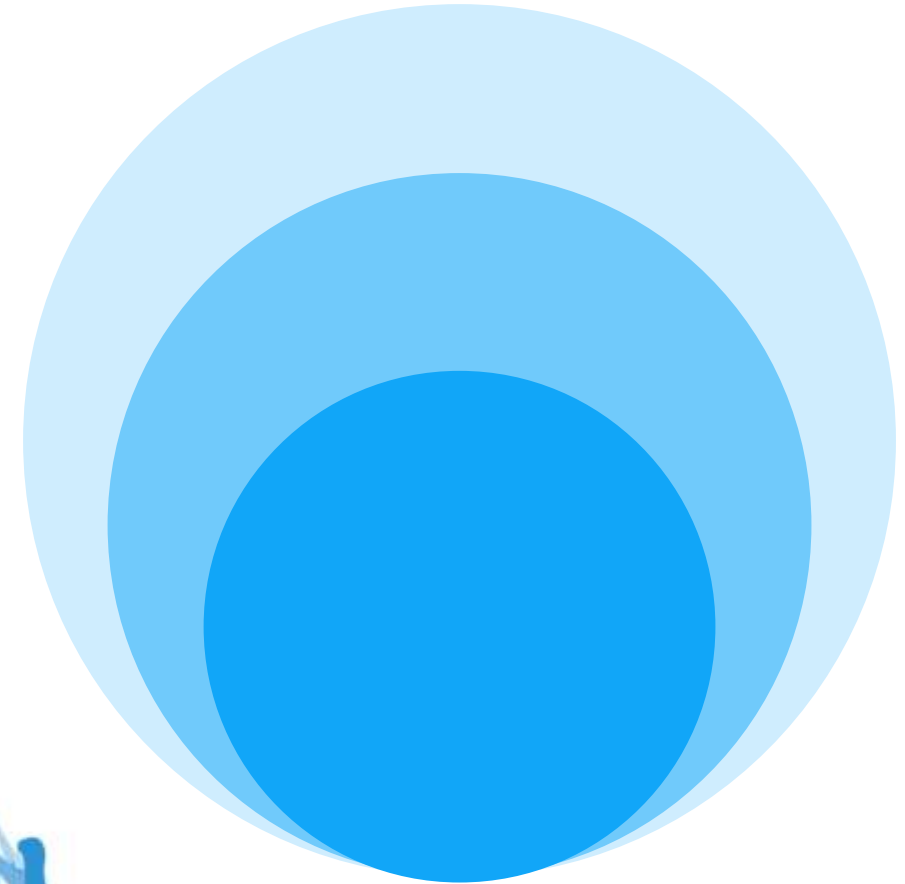




1. Improves Problem Solving Abilities



- Competitive Programming is a brain game in which a programmer's problem-solving abilities are put to the test. A participant's analytical and rational thinking improves as they solve increasingly difficult tasks in live-contests
- It educates contestants to find the simplest solution in the shortest amount of time feasible, improving their problem-solving and debugging skills
- What makes this benefit so important is that effective problem-solving skills can help youngsters become better professionals and people in general in the future. Problem-solving is a fundamental life skill that we use everyday





2. Provides Guaranteed Mental Exercise



- Competitive Programming is similar to a brain training program, except it is used to improve real-world abilities. Programmers can ensure that the coding section of their brain gets a regular workout by practicing to solve issues on a regular basis
- Solving difficult issues in a fast-paced atmosphere is an excellent way to activate dormant cells. Participants will use a lot of their brainpower whether they are competing in a live tournament or training in their own time
- Even if coders wind up in a profession that doesn't demand the competitive coding skills, doing competitive programming on the side is a terrific way to keep their thinking skills sharp and those inactive cells active
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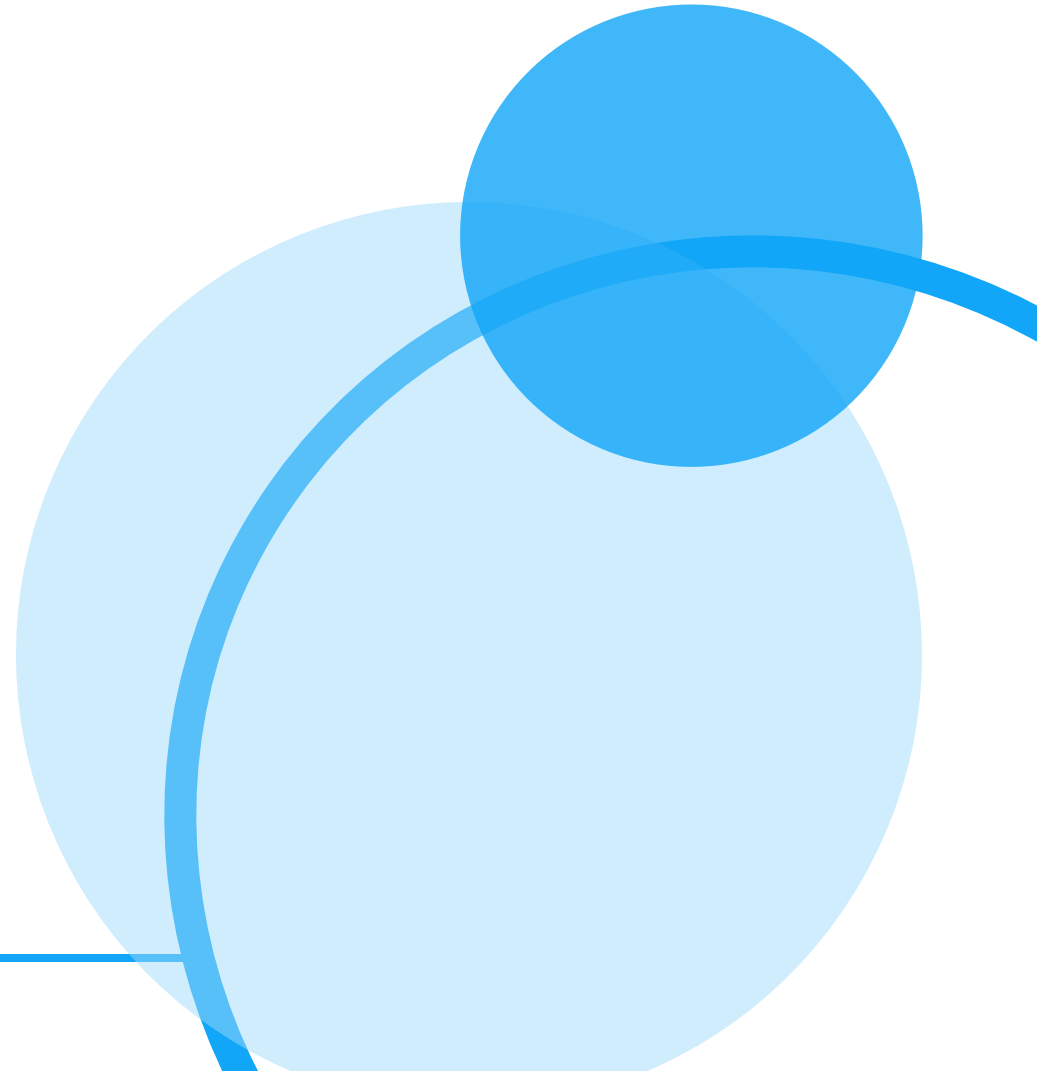
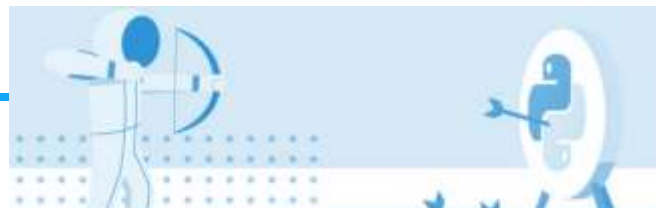




3. A Chance to Get Some Practice With Fast Coding



- Typically, contest programmers are faster coders. Solving difficult problems in a short amount of time acclimates any programmer to rigorous deadlines, which is usually advantageous in the professional job environment
- Development work deadlines are normally measured in weeks or months in the professional world, whereas competition programming deadlines are defined in minutes. Because there isn't time to consult the web for solutions during any event, contestants must physically have language syntax and algorithm expertise at their fingers
- Assuming a programmer can write good code, being able to code quickly has a benefit because it makes them more valuable
- Even if coders wind up in a profession that doesn't demand the competitive coding skills, doing competitive programming on the side is a terrific way to keep their thinking skills sharp and those inactive cells active





4. Attractiveness to Major Corporations

- Many abilities that are important in software engineering are developed by contest programmers. Candidates' technical acumen is still valued by the greatest software companies.
- Some employers regard technical aptitude to be an excellent predictor of general intelligence and use it in their hiring process
- A programmer may not be explicitly chosen by a firm based on their performance in competitive programming competitions. However, it is a valuable addition to their profile and will help them prepare for technical interviews
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5. Offers a Significant Technical Advantage During Job Interviews



- Candidates who are shortlisted for a large computer programming job are almost certain to face difficult algorithm problems in one or more interview rounds. Contest programmers will have a significant advantage because the standard coding interview is very similar to a programming competition
- Though there are some distinctions, they both involve the solution of a well-defined programming challenge, reward speedy answers, and tend to focus on well-known techniques rather than domain-specific technology
- The coding portion of an interview is dreaded by most general programmers, but experienced competitive programmers find it quite simple because competition challenges are typically more difficult to solve.
- Some people consider that competitive coding abilities are too advanced for most software development professions
- What distinguishes outstanding programmers from mediocre programmers is their unique ability to solve around 20% of the difficult and uncommon tasks that regular programmers are unable to solve. Almost every developer encounters circumstances where their basic skills are insufficient to address an issue





6. Allows You to Concentrate on the Essentials



- Expert coders, no matter how advanced, rarely lose sight of the fundamentals. In many ways, the fact that they grasp the principles better than everyone else is the primary reason they are more advanced
- Because traditional programming contests use tasks that demand arithmetic and algorithm skills, competitive programming allows programmers to stay focused on the fundamentals of computer science

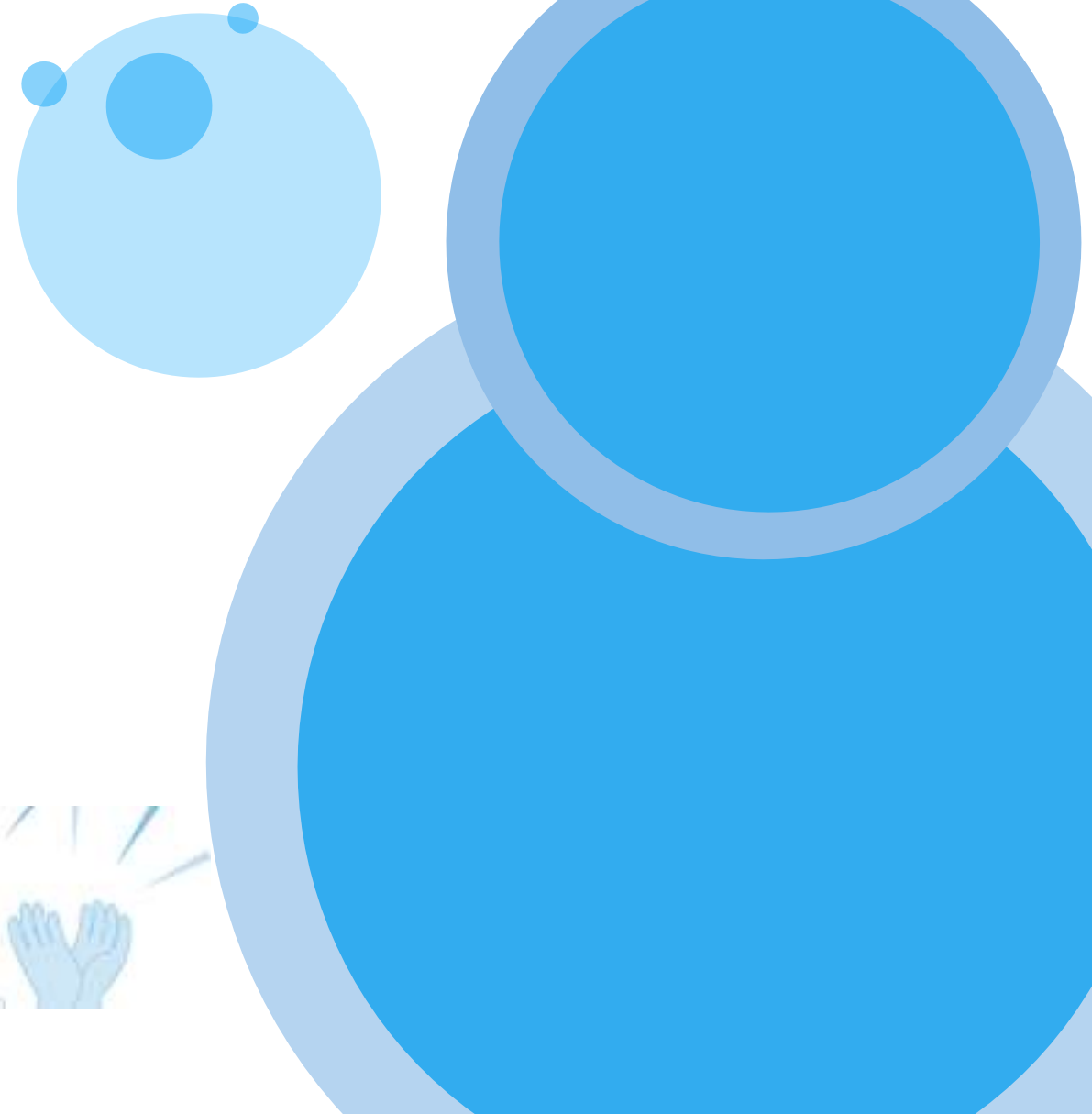




7. Encourages to Write Cleaner and More Efficient Code



- In the professional world, clean code is regarded as the deciding factor in whether a project succeeds or fails. Many coding contest websites allow contestants to evaluate their competitors' solutions to challenges after the competition has ended
- Most popular web platforms allow you to read the code of red coders/highly rated programmers. Because it's rare for two coders to implement the same answer to an identical problem in the real world, this is an excellent opportunity for coders to examine how other coders tackled the same problems
- Competitive coding teaches youngsters how to create code, which data structures to employ, and how to make coding decisions more simple

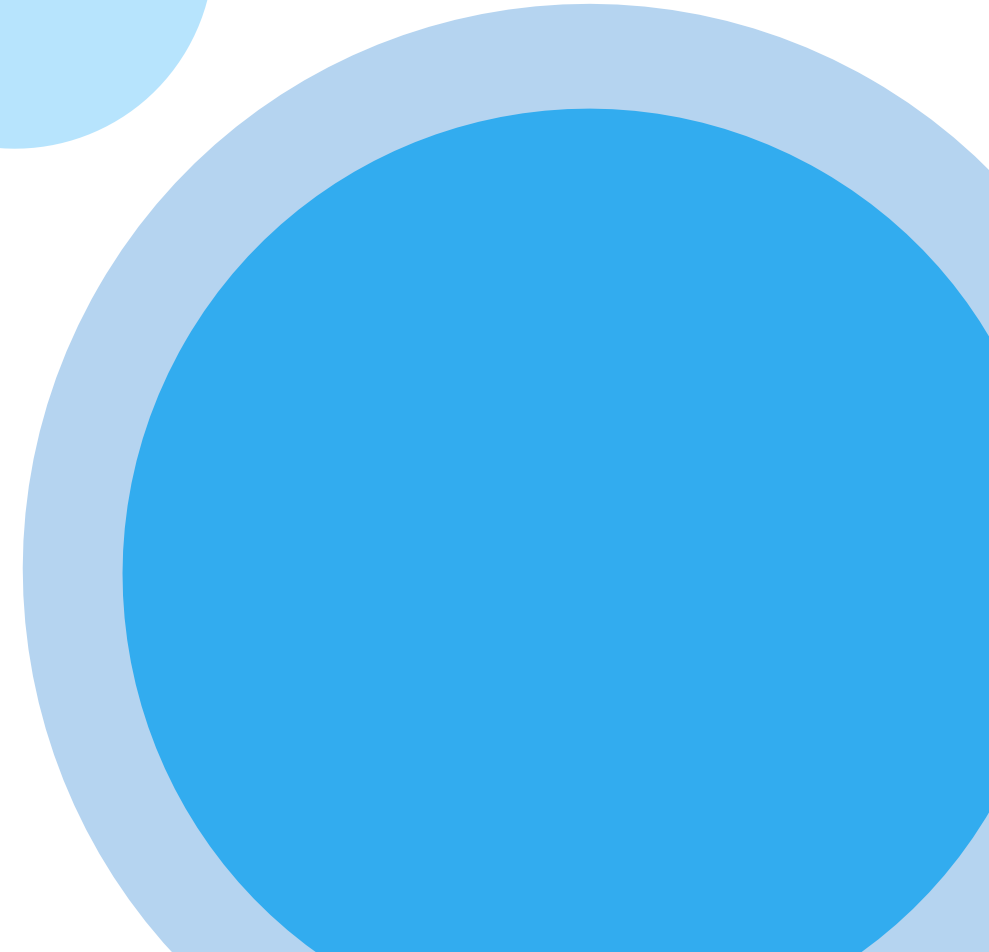
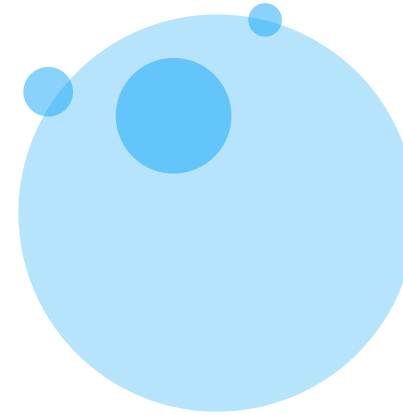




8. Acceptance of "Failure" Becomes More Acceptable



- The focus of Competitive Programming is on the Process rather than the Outcome
- It's in the essence of computer programming competitions to fail and try again, to solve difficulties, and then to optimize it. There isn't an easy way out
- It teaches programmers to fight until the problem is solved, instilling persistence and determination in your child

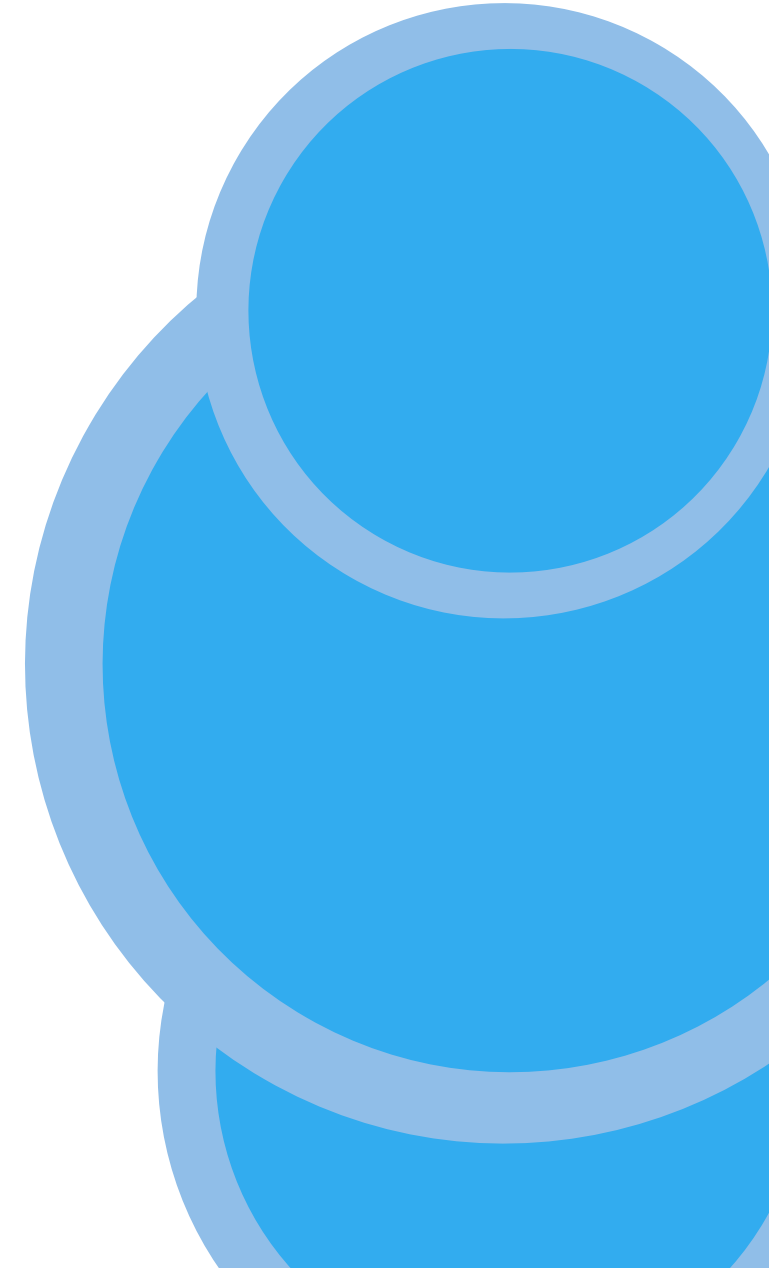
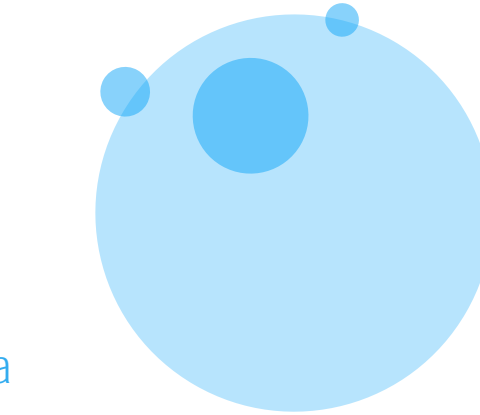




9. Method to Show Off Your Programming Skills



- Most programmers, especially those who are new out of college or pursuing internships, don't have anything substantial to back up some of the statements on their resume.
- The results of online coding competitions illustrate how a programmer compares to his or her peers. Competitors' performance in contests is listed on leaderboards in competitive programming communities.
- Programmers can get a major edge by competing in programming competitions because a good ranking displays the ability to solve issues under pressure.

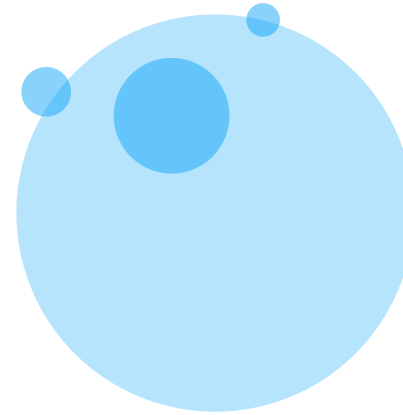




10. Join the Active Community in Competitive Programming



- On the biggest coding challenge websites, there is a vibrant community for online coding competitions
- Additionally, Quora makes it simple for competitive coding newbies to get their questions addressed. Having a community to hang out with and offer support may be quite motivating
- This also allows candidates to expand their network of peers who are also interested in programming
- They will be exposed to an elite group of developers by participating in this community





11. Actually Learn the Language Chosen



- Immersion is widely accepted as the most effective method for learning human languages
- Once you have a basic understanding of the language, put yourself in a scenario where you have no choice but to use it, such as hanging out with the people in a location where the language is spoken
- A coding competition is the finest way to put your knowledge of a programming language to the test.
- There will be no time to examine a dictionary or phrasebook. As a result, the coder will soon discover whether or not they are fluent
- If they don't, coding competitions will force them to learn the syntax for common library methods or simply write a lot more code

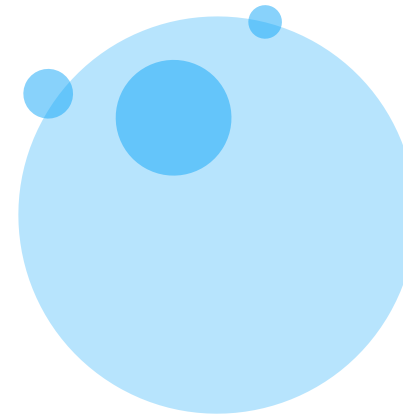




- The tools of the profession and a source of practice material are the foundations of most deliberate practice
- Speakers require a speech sheet, a stage, or a teleprompter, and computer programmers require a computer and a description of what to develop, much as basketball players require a basketball, a hoop, and a court
- Coding competitions are a great way to get some practice in. They offer issues, test cases, and a vibrant community
- The practitioner can concentrate on developing appropriate study habits and honing their learning skills
- Choose an issue, solve it, reflect on how well you solved it, and then repeat the process



12. Easy to Practice Deliberately





13. Inspires Participants to Work as a Team

- Many coding competitions encourage you to compete as part of a team
- Participants will learn how to collaborate in a group setting
- They'll learn how to cultivate a team spirit and demonstrate genuine dedication by contributing to a team's effort
- It teaches the contestants to think in terms of "WE" rather than "ME"





14. Sharpens Your Focus



- Competitive programming requires significant concentration due to its detailed and condensed nature
- Competitive programmers frequently develop the capacity to focus better and longer as a result of competing and strict, continuous training





15. Excellent Debugging Skills

- Because debugging is such an important part of contest programming, contest programmers are typically excellent debuggers
- Most normal programmers are content with a solution that works 99% of the time
- For contest programmers, though, it's more binary: either it works perfectly all of the time or it doesn't

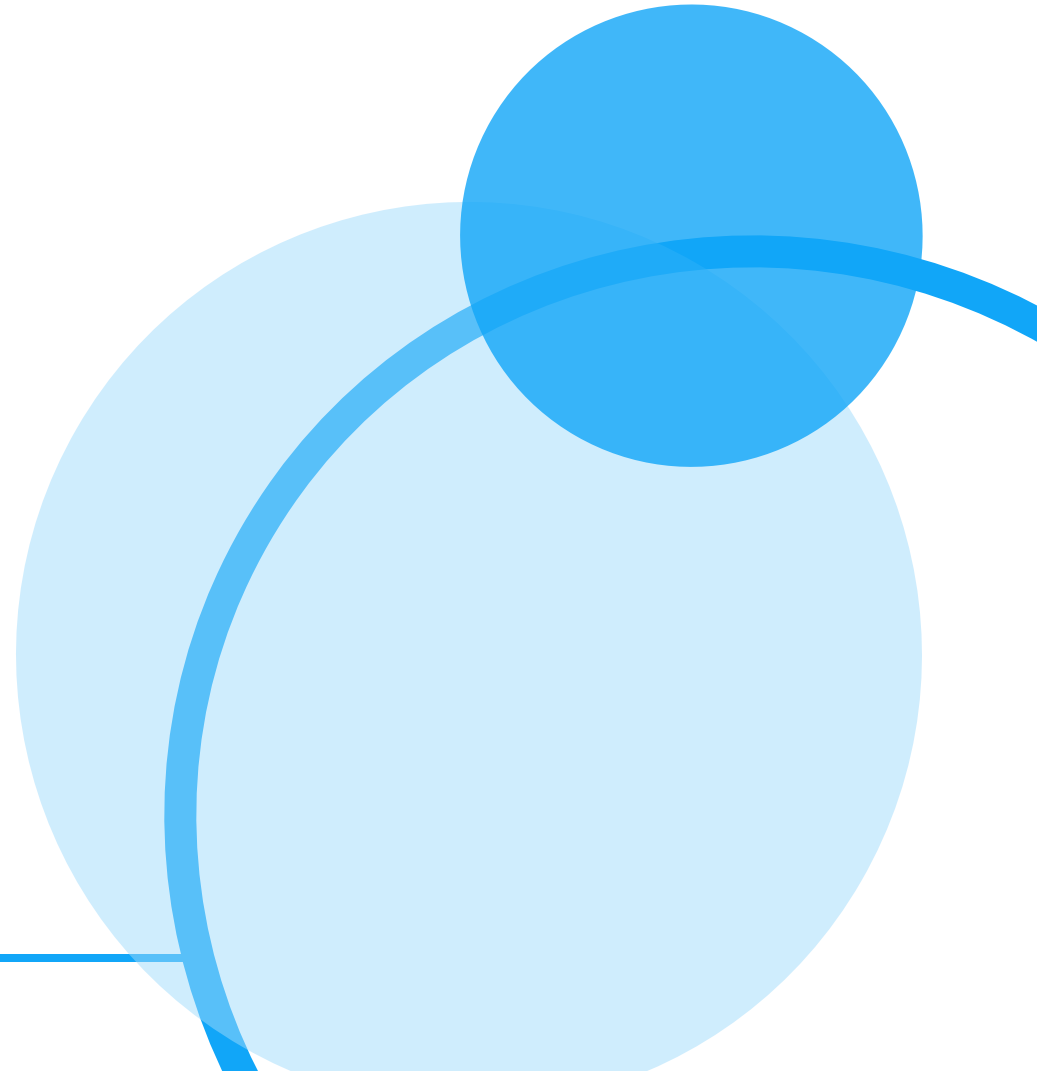




16. Chance to Win Prizes - Cash and Other Benefits



- For the most part, winning rewards is not the primary purpose of programming contestants
- Entering competitive programming competitions is mostly for the goal of improving core programming abilities and gaining access to the most





17. A Memorable Event Forever



- Just because coding is usually boring, inquisitive, and serious doesn't imply it can't be enjoyable as well
- Participating in coding competitions does not have to be solely for the purpose of honing hard skills and advancing your profession
- It can also be a beneficial activity, a stress reliever, and a source of enjoyment
- When we love to code, the output will be really magnificent and tempt to make it better and a complete usable product
- We can remember this memorable event forever – whenever, whatever and wherever you code





18. Final Thoughts



- Coding competitions are an excellent method for young programmers to put what they've learned in a fun setting while still honing their analytical and problem-solving abilities.
- Candidates can gain real-world experience coding to address a problem or refine their coding skills by participating in coding competitions.
- Competitive coding, we believe, can also be used to motivate the next generation of coders to combine skills, teamwork, and creativity to create things that have a real-world impact
- That is why we created 'GR++ - Code to Make a Difference', our own coding competition.

