RECursion

Competitive programming

Competitive programming is solving well-defined problems by writing computer programs under specified limits., *It involves the host presenting a set of logical or mathematical problems to the contestants (who can vary in number from tens to several thousands), and contestants are required to write computer programs capable of solving each problem. Judging is based mostly upon number of problems solved and time spent for writing successful solutions, but may also include other factors (quality of output produced, execution time, program size, etc.).*

WHY Competitive programming

• **You get better applying theoretical concepts such as data structures, computational complexities, dynamic programming, graph theory, etc. which can be very useful when writing performance-critical software.**.

• **Competitive programming communities have leaderboards that list competitors' performance in the contests. A good ranking demonstrates that you can solve problems under pressure, and it shows where you stack up compared to your peers.** .

• **It's a proof that you have brainpower; any potential employer/investor/business partner would appreciate that skill.**.

• **You learn how to write code and do team work under time pressure. It's actually great for life in general.**, .

• **If you become a beast at it, you will get payed for it and do international travel.**.

• **The environment at these competitions is great, you get the opportunity to make a lot of smart friends. Some examples of people who used to be competitive programmers in their college years include Adam D'Angelo, Craig Silverstein and Nikolai Durov; among others.**, .

• **And most importantly getting an awesome job.**.

Role of RECursion

RECursion – NIT Durgpur , codechef campus chapter is a small initiative taken by the students of NIT Durgapur with the aim of introducing competitive programming to the students in their freshman year. Inculcating the urge to become a good coder in the very first year helps them make their focus very clear and developing a healthy coding culture in our college. In order to accomplish this, we conduct classes every week. Starting from the scratch we teach different algorithms and approach towards the problems. To keep their vigor and passion for coding intact contests are held every month and the good performers are awarded with goodies and cash prizes.The classes which are held twice a week had positive outcomes. Participation in coding competitions have increased incredibly. 23(Kharagpur regional) and 16(Amritapuri regional) teams registered for ACM-ICPC 2014 whereas earlier hardly 5 to 6 teams had registered.