



Art of Problem Solving

10865 Rancho Bernardo Rd Ste 100
San Diego, CA 92127

(858) 675-4555
www.artofproblemsolving.com

May 31, 2018

Sivaram Nair
10706 Rosewood Road Apt 706B
Cupertino, CA 95014

Greetings,

This letter is to confirm that Venkataram Edavamadathil Sivaram has completed Art of Problem Solving's Introduction to Number Theory course. This is a one semester course in the fundamentals of Number Theory, including primes and composites, divisors and multiples, divisibility, remainders, modular arithmetic, number bases, and the Chinese Remainder Theorem. The course is specifically designed for high-performing students and draws material from many programs for top middle and high school students in the country. Venkataram earned a grade of A+ in this course.

Venkataram did excellent work in this class. Introduction to number theory is an abstract mathematics course that is very challenging for high school students and Venkataram performed masterfully. His writing problems were excellent as well as his work on the challenge problems. He participated regularly in class, giving useful advice on how to proceed in problems. Venkataram is well positioned to do well in any future math courses.

Sincerely,

Dylan Yott
Art of Problem Solving
classes@artofproblemsolving.com



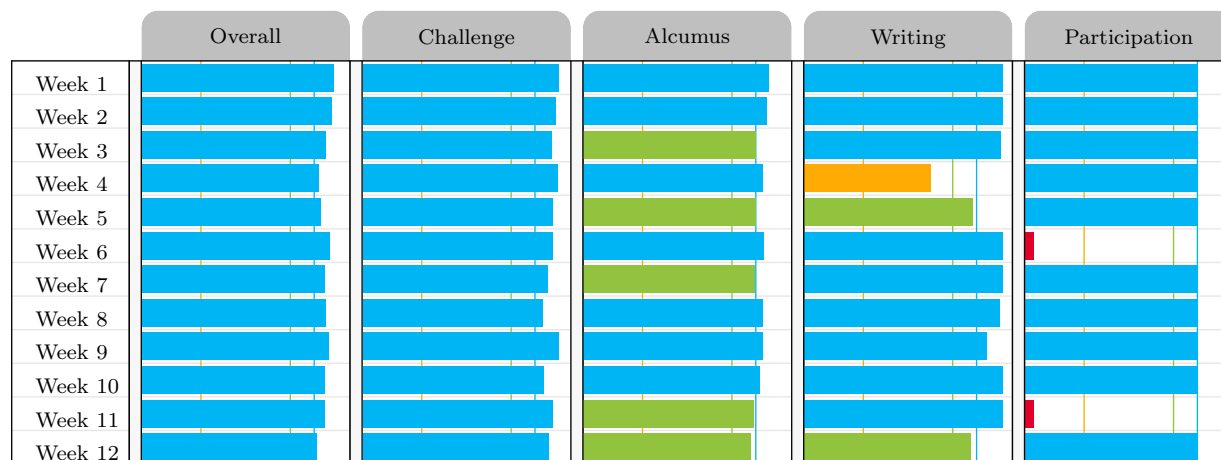


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Student Report



How to Read This Report

Our system for communicating progress to students is based on colors. The green line is the target we set for them, since this is the point where we tell students that they have passed the week's material and are ready to move on. The blue line is the mastery line, and offers an extra challenge to the most motivated students.

Overall: This bar is built by combining the Challenge, Alcumus, Writing, and Participation bars. The length is based 35% on the Challenge Problem score, 20% on the writing problems score, 40% on the Alcumus score, and 5% on the Class Participation score.

Alcumus: This is our online adaptive learning system, which offers students a customized learning experience, adjusting the difficulty of the problems it provides to a particular student based on the student's previous performance.

Challenge: Every week, the student is challenged with 6-12 difficult short-answer problems based on the week's topic. These problems collectively test the student's ability to correctly apply the key concepts of the week. Students are allowed to re-attempt a problem until they answer correctly. The answers are automatically graded by a computer, giving the student instant feedback along with a full solution to each problem.

Writing: Writing Problems require a student to write a full solution in complete sentences, rather than simply provide a numerical answer. Each problem serves as a capstone for the week and provides practice in mathematical writing. Here, the student is expected to articulate their creative, critical, and logical reasoning, and to show any step-by-step computations that lead to





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their final answer or proof. Writing problems are reviewed by our instructional staff, and students receive a grade as well as personalized feedback on both the technical and stylistic aspects of their submission.

Participation: The participation score is generated automatically by monitoring performance during class time.

