

LABORATORY MANUAL

Class XII

CHEMISTRY



Ncert Chemistry Lab Manual Class 12 Chromatography

KUNDAN KUMAR



Ncert Chemistry Lab Manual Class 12 Chromatography:

Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Dr. S. C. Rastogi, Er. Meera Goyal, 2020-06-22

A Surface Chemistry

- 1 To prepare colloidal solution sol of starch
- 2 To prepare a colloidal solution of egg albumin
- 3 To prepare colloidal solution of gum
- 4 To prepare colloidal solution of aluminium hydroxide Al(OH)_3
- 5 To prepare colloidal solution of ferric hydroxide Fe(OH)_3
- 6 To prepare colloidal solution of arsenious sulphide As_2S_3
- 7 To purify a freshly prepared sol by dialysis
- 8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions

Viva Voce B Chemical Kinetics

- 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid
- 2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid
- 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions
- 4 To study the rate of reaction between potassium iodate KIO_3 and sodium sulphite Na_2SO_3 using starch solution as indicator

Viva Voce C Thermochemistry

- 1 Determine the enthalpy of dissolution of copper sulphate $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ in water at Room temperature
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- 3 To determine enthalpy change during the interaction between acetone and chloroform

Viva Voce D Electrochemistry

- 1 To study the variation of cell potential in $\text{Zn} | \text{Zn}^{2+} || \text{Cu}^{2+} | \text{Cu}$ with change in concentration of electrolytes CuSO_4 or ZnSO_4 at room temperature

Viva Voce E Chromatography

- 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their R_f values
- 2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their R_f values
- 3 To separate Co^{2+} and Ni^{2+} ions present in the given mixture by using ascending paper chromatography and determine their R_f values

Viva Voce F Preparation of Inorganic Compounds

- 1 Preparation of double salt of ferrous ammonium sulphate Mohr's salt from ferrous sulphate and ammonium sulphate
- 2 To prepare a pure sample of potash alum fitkari
- 3 Preparation of crystals of potassium ferric oxalate or potassium trioxalato ferrate III

Viva Voce G Preparation of Organic Compounds

- 1 Preparation of iodoform from ethyl alcohol or acetone
- 2 Preparation of acetanilide in laboratory
- 3 Preparation of *p*-Naphthol aniline dye
- 4 To prepare a pure sample of dibenzalacetone
- 5 To prepare a pure sample of *p*-nitro acetanilide

Viva Voce H Tests for the Functional Groups Present in Organic Compounds

Viva Voce I Study of Carbohydrates Fats and Proteins

- 1 To study simple reactions of carbohydrate
- 2 To study simple reactions of fats
- 3 To study simple reactions of proteins
- 4 To investigate presence of carbohydrates fats and proteins in food stuffs

Viva Voce J Volumetric Analysis

- 1 To prepare 250 ml of $M/10$ solution of oxalic acid
- 2 To prepare 250 ml of $M/10$ solution of ferrous ammonium sulphate
- 3 Prepare $M/20$ solution of oxalic acid with its help find out the molarity and strength of the given solution of potassium permanganate
- 4 Prepare $M/20$ solution of Mohr's salt using this solution determine the molarity and strength of potassium permanganate solution

Viva Voce K Qualitative Analysis

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INVESTIGATORY PROJECTS 1 To study the presence of oxalate ions in guava fruit at different stages of ripening 2 To study the quantity of caseine present in different samples of milk 3 Preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc 4 To study the effect of potassium bisulphite as food preservative at various concentrations 5 To study the digestion of starch by salivary amylase and the effect of pH and temperature on it 6 To study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice 7 To extract essential oils present in saunf aniseed ajwain corum illaichi cardomom 8 To detect the presence of adulteration in fat oil and butter 9 To investigate the presence of NO₂ in brinjal **Practical/Laboratory**

Manual Chemistry Class XII based on NCERT guidelines Dr. S. C. Rastogi, ,Er. Meera Goyal,2022-02-25 An Excellent Book in Accordance with the latest syllabus for class XII Prescribed by CBSE NCERT and Adoptedby Various State Education Boards A Surface Chemistry 1 To prepare colloidal solution sol of starch 2 To prepare a colloidal solution of egg albumin 3 To prepare colloidal solution of gum 4 To prepare colloidal solution of aluminium hydroxide Al OH 3 5 To prepare colloidal solution of ferric hydroxide Fe OH 3 6 To prepare colloidal solution of arsenious sulphide As₂S₃ 7 To purify a freshly prepared sol by dialysis 8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions Viva Voce B Chemical Kinetics 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid 2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid 3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions 4 To study the rate of reaction between potassium iodate KIO₃ and sodium sulphite Na₂SO₃ using starch solution as indicator Viva Voce C Thermochemistry 1 Determine the enthalpy of dissolution of copper sulphate CuSO₄ · 5H₂O in water at Room temperature 2 To determine the enthalpy of neutralization of the reaction between HCl and NaOH 3 To determine enthalpy change during the interaction between acetone and chloroform Viva Voce D Electrochemistry 1 To study the variation of cell potential in Zn Zn²⁺ Cu²⁺ Cu with change in concentration of electrolytes CuSO₄ or ZnSO₄ at room temperature Viva Voce E Chromatography 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their R_f values 2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their R_f values 3 To separate Co²⁺ and Ni²⁺ ions present in the given mixture by using ascending paper chromatography and determine their R_f values Viva Voce F Preparation of Inorganic Compounds 1 Preparation of double salt of ferrous ammonium sulphate Mohr's salt from ferrous sulphate and ammonium sulphate 2 To prepare a pure sample of potash alum fitkari 3 Preparation of crystals of potassium ferric oxalate or potassium trioxalato ferrate III Viva Voce G Preparation of Organic Compounds 1 Preparation of iodoform from ethyl alcohol or acetone 2 Preparation of acetanilide in laboratory 3 Preparation of p Naphthol aniline dye 4 To prepare a pure sample of dibenzalacetone 5 To prepare a pure sample of p nitro acetanilide Viva Voce H

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Lab Sparks: Amazing Chemistry – Complete Edition for Classes 6–12: The Ultimate Practical Manual | You Can See, Feel & Explore! | 70+ Experiments from Kitchen Science to Barking Dog Reaction | Aligned with NCERT, CBSE & NEP 2020
 KUNDAN KUMAR, 2025-07-14 The Ultimate Science Adventure Awaits Discover the Magic of Chemistry with Over 70 Hands On Experiments That Will Blow Your Mind Welcome to Lab Sparks Amazing Chemistry Complete Edition the most comprehensive and student friendly practical manual ever created for young scientists in Classes 6 12 Ages 10 18 Whether you're making balloons inflate without blowing or witnessing the Barking Dog Reaction roar this book turns abstract chemistry concepts into real touchable experiences From kitchen science to dramatic explosions every experiment is designed to spark curiosity ignite wonder and make learning unforgettable What's Inside 70 Visual Experiments From fizzing reactions to glowing liquids Step by Step Instructions with emoji based visuals diagrams Real Life Connections See how chemistry works in daily life Safety Tips Student Reflections after every activity Aligned with NCERT CBSE Syllabus NEP 2020 Guidelines Perfect for Practical Files Science Fairs Project Work Competitive Exam Prep NEET JEE Graded Difficulty Simple Home Experiments Class 6 8 to Advanced Lab Activities Class 9 12 Imagine Balloons that inflate using just vinegar and baking soda Liquids that change color like magic with kitchen indicators Making rainbows with a mirror and water Growing crystals at home Fire tornadoes in a jar safely observed The legendary Barking Dog Reaction that roars with blue flame This isn't just a lab manual it's a journey from Why to Wow It builds scientific thinking problem solving skills and a lifelong love for the invisible forces that shape our world Perfect For CBSE State Board Students Class 6 12 NEET JEE Mains Aspirants Science Teachers Homeschooling Parents School Practical Files Science Exhibition Projects Gift for Young

Scientists Who Love to Explore By Kundan Kumar PGT Chemistry Creator of Short Sweet Chemistry YouTube and Founder of Short Sweet Services Because Chemistry Isn't Just Formulas It's Magic in a Bottle Ready to turn ordinary ingredients into extraordinary adventures Let's get started

CBSE Class 12th Chemistry (10 Most Likely Question Papers with Solution) By Career Point Kota Career Point Kota, 2020-07-28 The CBSE has made certain changes in the assessment structure from the session 2019-20 onwards In the new scheme of examination CCE and term system has been replaced with the Internal Assessment Single Annual Exam by CBSE itself Single exam conducted by CBSE will carry 80 marks whereas 20 marks are left to the schools for internal assessment CBSE has issued detailed guidelines on how the internal marks will be divided among different activities From 2019 onwards there will be internal choices in board examinations with increased internal options in the question paper Considering this change now a student has to prepare accordingly for board examinations The new assessment format brought with it excitement as well as anxiety And to help them prepare and excel in their CBSE board examination Career Point Kota has developed a series of 10 Most Likely Question Papers with Solutions The Key Features of Most Likely Question Papers with Solutions Series New OBJECTIVE TYPE question in each paper Syllabus of CBSE 2019-20 Based on the latest CBSE Syllabus Pattern Mind map of each chapter is given to visualize and help acquire a better understanding Important terms facts formulae and quick revision tips are given Covers questions asked in previous year board exams Toppers Answer Sheet as released by CBSE to understand the scoring technique We hope this book will gratify students need for the new CBSE pattern board exam and smoothen their path to success We wish to utilize the opportunity to place on record our special thanks to all the members of the Content Development team for their efforts to create this wonderful book

International Books in Print, 1990 **Practical/Laboratory Manual Chemistry Class XI based on NCERT guidelines by Dr. S. C. Rastogi & Er. Meera Goyal** Dr. S. C. Rastogi, Er. Meera Goyal, 2020-06-23 An Excellent Book in Accordance with the latest syllabus for Class 11 Prescribed by CBSE NCERT and Adopted by Various State Education Boards A Basic Laboratory Techniques 1 To cut a glass tube or glass rod 2 To bend the glass rod at an angle 3 To draw a glass jet from a glass tube 4 To bore a cork and fit a glass tube into it B Characterisation and Purification of Chemical Substances 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method 3 To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample 4 To prepare the pure crystals of copper sulphate from the given crude sample 5 To prepare pure crystals of benzoic acid from a given impure sample C Measurement of pH Values 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper 4 To study the pH change by common ion CH_3COO^- ion in case of weak acid CH_3COOH 5 To determine the

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Chemistry Lab

Manual Class XII Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculum.

EduGorilla Prep Experts, 2022-07-05 Chemistry is all about conducting various experiments and having a deep study about them This deep analysis and study cannot solely be done with theories and practical experiments are necessary for better skill development of the students Considering this every year CBSE conducts the chemistry practicals in addition to the theory examinations This class 12 chemistry lab manual contains all the essential information that the students will require while commencing the practicals CBSE class 12th chemistry lab manual has been prepared strictly according to CBSE guidelines which follows the NCERT and other State Board curriculum All the experiments in this lab manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of related experiments Mr Kaushalesh Dwivedi is the author of

this complete lab activity book for class 12 chemistry All the lab based experiments have well labeled diagrams which clearly demonstrate the details of the apparatus that are used the correct way of handling Laboratory apparatus and perform the experiments methodically The basic purpose of this lab manual is to provide the students with appropriate guidance so that they can easily understand carry out and document the experiments in the Science Laboratory The Lab Manual comes with practical lessons followed by Lab experiments after each chapter projects and Notebook for jotting down all the essential information The aim of this Science Lab Manual is to help class 12 students to prepare and understand the complex chemistry concepts through experimental approach by utilizing pedagogically enhanced content of the lab manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities Practical/Laboratory Manual Chemistry Class XII based on NCERT guidelines by Dr. S. C. Rastogi, Er. Meera Goyal Dr. S. C. Rastogi, Er. Meera Goyal, 2020-06-22

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Instrumental Liquid Chromatography N.A. Parris, 2000-04-01 Instrumental Liquid Chromatography **Chemistry Lab**

Manual Class XI | Follows the Latest CBSE Syllabus and Other State Board Following the CBSE Curriculam.

EduGorilla Prep Experts, 2022-07-05 Theories are incomplete without experimentation So in order to enhance the practical skills of students the CBSE conducts the practical exams for class 11 chemistry along with theoretical exams to test the scientific aptitude of students CBSE Class 11th chemistry Lab Manual has been prepared strictly according to CBSE guidelines which follows the NCERT and other state board curriculum All the experiments in this Lab Manual have been given in a simple lucid and interactive manner The theory given with each experiment gives complete knowledge of each term concept and definition in order to provide a compact knowledge to the students at one place Viva Voce questions are given with each experiment to test students understanding of related experiments Mr Kaushalesh Dwivedi is the author of this complete lab activity book for class 11 chemistry All the lab based experiments have well labeled diagrams which clearly demonstrate the details of the apparatus that are used the correct way of handling Laboratory apparatus and perform the experiments methodically The basic purpose of this Lab Manual is to provide the students with appropriate guidance so that they can easily understand carry out and document the experiments in the Science Laboratory The Lab Manual comes with practical lessons followed by lab experiments after each chapter projects and Notebook for jotting down all the essential information this develops a better understanding about the concept behind each class 11 chemistry theory there is an experiment which brings authentic and easy to retain conclusions through its observations and which is verified on a real time basis The aim of this Science Lab Manual is to help class 11 students to prepare and understand the complex chemistry

concepts through experimental approach by utilizing pedagogically enhanced content of the Lab Manual and with a compact knowledge base for improving their analytical experimental skills and learning abilities **CBSE Class 12 Chemistry Chapter-wise Question Bank - NCERT + Exemplar + PAST 15 Years Solved Papers 8th Edition** Disha Experts,2022-08-02 The thoroughly Updated 8th Edition of the book CBSE Class 12 Chemistry Chapter wise Question Bank NCERT Exemplar PAST 15 Years Solved Papers provides Step by step Chapter wise Solutions to the 3 Most Important requirements of the students NCERT Solutions Exemplar Solutions Solved Papers Past 13 Years for CBSE Class 12 The book is divided into 3 sections Section 1 NCERT Exercise consists of solutions to all Intext and chapter exercises Section 2 Past Year Questions of Past 13 years with Solutions Section 3 Exemplar Problems Solutions to select NCERT Exemplar problems The Book will prove to be a One Stop Question Bank for CBSE Exams *10 in One Study Package for CBSE Chemistry Class 12 with 5 Model Papers* Disha Experts,2017-08-29 10 in ONE CBSE Study Package Chemistry class 12 with 5 Sample Papers is another innovative initiative from Disha Publication This book provides the excellent approach to Master the subject The book has 10 key ingredients that will help you achieve success 1 Chapter Utility Score 2 All India Board 2017 Solved Paper 3 Exhaustive theory based on the syllabus of NCERT books along with the concept maps for the bird s eye view of the chapter 4 NCERT Solutions NCERT Exercise Questions 5 VSA SA LA Questions Sufficient Practice Questions divided into VSA SA LA type Numericals are also included wherever required 6 Past Years Questions Past 10 year Questions of Board Exams are also included 7 HOTS Exemplar Value based Questions High Order Thinking Skill Based Moral Value Based and Selective NCERT Exemplar Questions included 8 Chapter Test A 15 marks test of 30 min to assess your preparation in each chapter 9 Important Formulae Terms and Definitions 10 Full syllabus Sample Papers 5 papers with detailed solutions designed exactly on the latest pattern of CBSE Board **NCERT Solutions Chemistry 12th** Geeta Rastogi,2014-01-01 Laboratory Chromatography Guide Angelo Talamona,2005 *NCERT Solutions Chemistry Class 12th* Geeta Rastogi,2022-12-16 NCERT books are not only considered as best study materials for CBSE board exams but also for some of the highly competitive exams such as NEET JEE etc The NCERT SOLUTIONS series for class VI XII offers a complete package of the syllabus along with well explained chapters of every subject in a concise way Here s reintroducing you to the freshly updated edition of the NCERT Exercises Solutions series NCERT SOLUTIONS CHEMISTRY which has been consciously designed for class XII students This book provides a complete solution to all the Chemistry chapter exercises of the NCERT book along with detailed explanations to easily learn concepts and enhance thinking and learning abilities To get a quick recap of each concept two Additional features that is Thinking Process Notes are also included in each chapter This book also covers solutions to selected problems of NCERT Exemplar Problems A comprehensive Exercise solution book of NCERT Provides a complete solution to NCERT Chemistry Detailed Explanations to understand each concept easily Additional features include Thinking Process Notes Covers solutions of NCERT Exemplar Problems TABLE OF CONTENT The Solid State Solutions

Electrochemistry Chemical Kinetics Surface Chemistry Process of Isolation of Elements The p Block Elements The d and f block Elements Coordination Compounds Haloalkanes and Haloarenes Alcohols Phenols Ethers Aldehydes Ketones Carboxylic Acids Amines Biomolecules Polymers Chemistry in Everyday Life **Chemistry Simplified NCERT Class 12** Sanjay Sharma, 2020-04-26 Competitive exams have been the new approach to life for all students Every good college is attainable through a National or Regional Level exam NCERT Textbooks have become the benchmark for syllabus and theory for these exams Every student needs to learn these textbooks by heart But it is always compact and feels short Simplified NCERT from Arihant is one of a kind reference book which helps student to grasp all key points and concepts in a simple manner which is easy to retain yet clearing all concepts Chemistry as a subject needs visualization to learn the latest edition has been made in such a way that you can attain the entire chemistry concept in an easy and interactive language The book is developed volume wise to cater class wise needs TABLE OF CONTENT The Solid State Solutions Electrochemistry Chemical Kinetics Surface Chemistry Elements ke Isolation ke General Principles evm Processes The p Block Elements The d and f Block Elements Coordination Compounds Haloalkanes and Haloarenes Alcohols Phenols and Ethers Aldehydes Ketones va Carboxylic Acids Amines Biomolecules Polymers Chemistry in Everyday Life *Chapter-wise NCERT + Exemplar + Past 11 Years Solutions for CBSE Class 12 Chemistry 5th Edition* Disha Experts, The book provides Step by step Chapter wise Solutions to the 3 Most Important requirements of the students NCERT Book Exemplar Book Past 10 Years Solutions for CBSE Class 12 The 5th Edition of the book is divided into 3 sections Section 1 NCERT Exercise consists of solutions to all Intext and chapter exercises Section 2 Past Year Questions of Past 10 years with Solutions Section 3 Exemplar Problems Solutions to select NCERT Exemplar problems **Practical Liquid Chromatography** S. G. Perry, 2014-01-15 **Errorless NCERT Solutions with 100% Reasoning for Class 12 Chemistry** Disha Experts, 2019-06-03 The NCERT books are one of the most important resources for every class 12 student The book Errorless NCERT Solutions with 100% Reasoning Class 12 Chemistry is exclusively written to provide best quality solutions for NCERT Chemistry class 12 The Unique Selling Point of this book lies in its quality of solutions which provides 100% Reasoning which is missing in Most of the Books and are Errorless A lot of solution provide Notes immediately after the Solutions which provides Important Tips Shortcuts Alternative Methods Points to Remember etc This book provides Quick Revision of the concepts involved along with Important formulas and definitions in each chapter which would act as a refresher This is followed by the detailed solutions Question by Question of all the questions exercises provided in the NCERT book The solutions have been designed in such a manner Step by Step that it would bring 100% Concept Clarity for the student The solutions are Complete each and every question is solved Inflow exactly on the flow of questions in the NCERT book and Errorless **Practical Liquid Chromatography** S. G. Perry, Roger Amos, P. I. Brewer, 1973-10

The Top Books of the Year Ncert Chemistry Lab Manual Class 12 Chromatography The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Ncert Chemistry Lab Manual Class 12 Chromatography : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Ncert Chemistry Lab Manual Class 12 Chromatography : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

https://crm.allthingsbusiness.co.uk/files/publication/fetch.php/Walking_Workout_Best.pdf

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