

Bece science past questions Updated Version

Bece Science Past Questions: Your Ultimate Guide to Success

BECE Science Past Questions are an invaluable resource for students preparing for the Basic Education Certificate Examination (BECE) in Nigeria. As one of the core subjects, science plays a crucial role in determining a student's overall performance and future academic pursuits. Accessing and practicing past questions can significantly boost your confidence, improve your understanding of key concepts, and familiarize you with the exam's structure and common questions.

In this comprehensive guide, we will explore why BECE science past questions are essential, how to utilize them effectively, and provide tips to excel in your upcoming examination.

Why Are Bece Science Past Questions Important?

1. Familiarity with Exam Format and Style

Practicing past questions helps students understand the format of the BECE science paper, including the types of questions asked, the distribution of marks, and the time allocation for each section. This familiarity reduces exam anxiety and helps students manage their time effectively during the actual test.

2. Identifying Frequently Tested Topics

Repeated questions or topics appearing over the years indicate their importance in the exam. By reviewing past questions, students can identify these key areas and prioritize their studies accordingly.

3. Enhancing Problem-Solving Skills

Science exams often include application and reasoning questions. Regular practice with past questions sharpens analytical skills and improves students' ability to apply scientific principles to real-world scenarios.

4. Boosting Confidence and Motivation

Practicing past questions provides a sense of achievement and preparedness. As students observe their progress through continuous practice, their confidence levels increase, motivating them to study harder.

How to Effectively Use Bece Science Past Questions

1. Gather Authentic Past Questions

Ensure you source accurate and comprehensive past questions from reliable sources such as official examination boards, reputable educational websites, or authorized publishers. Having a collection spanning several years offers a broader understanding of exam trends.

2. Create a Study Schedule

Allocate specific times for practicing past questions regularly. Consistency is key to mastering the subject matter and building exam readiness.

3. Practice Under Exam Conditions

Simulate real exam environments by timing yourself and avoiding interruptions. This practice helps improve your time management skills and reduces exam-day nervousness.

4. Review and Analyze Your Answers

After completing each set of questions, review your answers critically. Understand your mistakes, learn the correct solutions, and clarify any misconceptions.

5. Focus on Weak Areas

Identify topics where you perform poorly and dedicate extra time to understanding those concepts. Use textbooks, online tutorials, or seek help from teachers to strengthen these areas.

6. Use Past Questions for Revision

In the final weeks before the exam, revisit past questions to reinforce your knowledge and ensure retention of key concepts.

Key Topics Covered in Bece Science Past Questions

Understanding the core topics frequently tested in BECE science is vital. Here are some of the main areas you should focus on:

1. Physics

- Light and Sound: Reflection, refraction, and properties of light
- Force and Motion: Types of forces, laws of motion
- Energy: Forms of energy, conservation of energy, sources of energy
- Electricity and Magnetism: Circuits, magnetic fields, conductors and insulators

2. Chemistry

- Elements and Compounds: Atomic structure, chemical symbols, and formulas
- States of Matter: Solids, liquids, gases, and their properties
- Acids, Bases, and Salts: pH scale, common acids and bases
- Chemical Reactions: Types of reactions, balancing equations

3. Biology

- Human Anatomy and Physiology: Organs and their functions
- Plant Biology: Photosynthesis, plant parts
- Nutrition and Health: Balanced diet, disease prevention
- Reproduction and Growth: Life cycles, human reproduction

4. Environmental Science

- Ecology and Ecosystems
- Pollution and Conservation
- Sustainable Development

Benefits of Using Bece Science Past Questions for Revision

- Enhanced Understanding: Repetitive exposure to questions deepens understanding of key concepts.
- Exam Technique Development: Learning how questions are framed helps develop effective answering strategies.
- Memory Retention: Regular practice reinforces memory and recall of scientific facts.
- Confidence Building: Familiarity with questions reduces fear and anxiety during the actual exam.

Where to Find Bece Science Past Questions

- Official Examination Boards: Always check the West African Examinations Council (WAEC) or National Examination Council (NECO) websites for authentic past papers.
- Educational Websites: Many reputable educational platforms curate past questions and practice tests.
- School Resources: Teachers and school libraries often have compiled past questions.
- Bookstores and Publishers: Purchase revision books specifically designed for BECE preparation, which include past questions and answers.

Additional Tips for Excelling in BECE Science

- Understand Concepts, Don't Memorize: Focus on understanding the principles rather than rote memorization.
- Use Diagrams and Charts: Visual aids can help simplify complex topics.
- Join Study Groups: Collaborative learning allows sharing knowledge and tackling difficult questions together.
- Seek Clarification: Don't hesitate to ask teachers or tutors about topics you find challenging.
- Maintain a Positive Attitude: Confidence and perseverance are crucial for success.

Conclusion

BECE Science Past Questions are an essential component of effective preparation. They provide insights into the exam structure, highlight important topics, and build the confidence necessary to excel. By systematically practicing past questions, focusing on weak areas, and understanding core concepts, students can significantly improve their chances of achieving high scores in their BECE science examination.

Remember, consistent practice, diligent study, and a positive mindset are the keys to success. Start early, utilize authentic past questions, and approach your preparation with determination. Your efforts today will pave the way for academic achievement tomorrow.

Bece Science Past Questions: A Comprehensive Guide to Mastering Your Preparation

Preparing for the Basic Education Certificate Examination (BECE) can be a daunting task for many students, especially when it comes to mastering the Science subject. One of the most effective strategies to excel in BECE Science is practicing with BECE Science past questions. These past questions serve as invaluable tools that provide insight into the exam structure, frequently tested topics, and the types of questions to expect. In this article, we will explore why using BECE Science past questions is essential, how to utilize them effectively, and provide a detailed guide to maximally benefit from these resources.

Why Are BECE Science Past Questions Important?

- Familiarity with Exam Format and Style

One of the primary benefits of practicing with past questions is becoming accustomed to the exam format. BECE Science questions typically cover topics like Physics, Chemistry, Biology, and Environmental Science. Past questions reveal the question styles?multiple choice, structured, or essay?and help students understand how to approach each.

- Identifying Frequently Tested Topics

Analysis of past questions often shows certain topics appear regularly. For example, areas like plant reproduction, simple machines, states of matter, or human anatomy tend to recur. Recognizing these patterns allows students to prioritize their study plan.

- Building Confidence and Reducing Exam Anxiety

Repeated practice with past questions can boost confidence. When students simulate exam conditions and successfully answer questions, they become more comfortable on the actual test day.

- Improving Time Management Skills

Practicing past questions helps students learn how to allocate time to different sections, ensuring they complete the exam within the allocated timeframe.

How to Effectively Use BECE Science Past Questions

- Gather Authentic and Recent Past Questions

Always ensure your past questions are from reputable sources and are recent enough to reflect the current exam pattern. Old or unofficial papers may contain outdated questions or incorrect answers.

- Create a Study Schedule

Design a timetable that allocates specific periods for practicing past questions. Regular practice?say, weekly?helps reinforce learning.

- Practice Under Exam Conditions

Attempt past questions in a quiet environment with strict time limits to simulate the real exam. This enhances focus and stamina.

- Analyze Your Performance

After each practice session, review your answers critically:

- Identify questions you got wrong or struggled with.
- Understand the correct solutions and explanations.
- Note recurring mistakes to avoid them in future.

- Use Past Questions to Identify Weak Areas

Focus more on topics where you perform poorly. Use textbooks, notes, or online resources to strengthen those areas.

- Incorporate Past Questions into Your Revision

Rather than rote memorization, integrate practice questions into your revision to test your understanding actively.

Types of BECE Science Questions and How to Approach Them

BECE Science questions are typically divided into three main categories:

- Multiple Choice Questions (MCQs)
- Characteristics: Usually four options; only one correct answer.
- Approach:

- Read the question carefully.
- Eliminate obviously wrong options.
- Use logical reasoning and your knowledge to select the best answer.
- Be cautious of tricky options that may seem correct but aren't.

- Structured Questions

- Characteristics: Require concise written answers, calculations, or explanations.
- Approach:
 - Understand exactly what the question asks.
 - Organize your answer clearly.
 - Show your working for calculations.
 - Use diagrams where applicable.

- Essay/Long Answer Questions

- Characteristics: More detailed explanations; often cover practical or theoretical knowledge.
- Approach:
 - Plan your answer before writing.
 - Use proper scientific terminology.
 - Support your answers with examples or diagrams where appropriate.

Key Topics Frequently Covered in BECE Science Past Questions

Analysis of past questions shows consistent testing of certain core topics:

Biology

- Human reproductive system
- Plant reproduction and lifecycle
- Photosynthesis and respiration
- Human senses and nervous system
- Diseases and hygiene

Chemistry

- States of matter
- Acids, bases, and salts
- Metals and non-metals
- Chemical reactions and equations
- Separation techniques

Physics

- Simple machines (levers, pulleys)
- Light and sound
- Electricity and circuits
- Forces and motion
- Energy sources

Environmental Science

- Pollution and conservation
- Ecosystems and habitats
- Weather and climate
- Recycling and waste management

Sample Practice Strategy Using Past Questions

To get the most out of BECE Science past questions, try the following structured approach:

Step 1: Topic-Based Practice

Select a specific topic, e.g., "Human Circulatory System," and find past questions related to it.

Step 2: Timed Practice

Attempt the questions within a set time, mimicking exam conditions.

Step 3: Review and Correct

Check your answers against model solutions or answer keys. Understand any mistakes.

Step 4: Deepen Understanding

Use textbooks or online resources to clarify concepts where you had difficulty.

Step 5: Repeat Regularly

Consistent practice across all topics ensures comprehensive preparation.

Resources and Platforms for BECE Science Past Questions

- Official Examination Boards: The West African Examinations Council (WAEC) often releases sample questions and past papers.
- Educational Websites: Many online platforms compile and sell or share past questions.
- School Libraries and Study Groups: Collaborate with classmates to exchange past questions and solutions.
- Mobile Apps: Several educational apps provide practice quizzes based on past BECE questions.

Final Tips for Success

- Start Early: Don't wait until the last minute; consistent study is key.
- Stay Organized: Keep a folder or notebook dedicated to past questions and your answers.
- Seek Help When Needed: Don't hesitate to ask teachers or tutors for clarification.
- Stay Positive and Confident: Believe in your preparation and stay motivated.

Conclusion

BECE Science past questions are powerful tools that can significantly enhance your exam readiness. They help you understand the question patterns, identify important topics, and develop effective answering strategies. By systematically practicing with these past questions, analyzing your performance, and focusing on weak areas, you position yourself for success in the BECE. Remember, consistent practice, coupled with a solid understanding of fundamental concepts, is the pathway to achieving excellent grades. Start practicing today, and let these past questions be your stepping stones to exam excellence!

QuestionAnswer What are the benefits of practicing BECE science past questions? Practicing BECE science past questions helps students familiarize themselves with the exam format, improve time management, identify common questions, and boost confidence for the actual exam. Where can I find reliable BECE science past questions and answers? Reliable sources include official education board websites, reputable educational resource platforms, and authorized bookshops that provide past question compilations for BECE science. How can I effectively use BECE science past

questions for my preparation? Create a study schedule that includes regular practice of past questions, review correct answers to understand mistakes, and simulate exam conditions to build confidence and speed. Are BECE science past questions suitable for all students preparing for the exam? Yes, they are suitable for all students as they provide insight into the types of questions asked and help in assessing individual knowledge and preparation levels. What topics are most frequently tested in BECE science past questions? Commonly tested topics include Physics, Chemistry, Biology, Measurement, Force and Motion, Electricity, and Environmental Science. How far back should I go when practicing BECE science past questions? It is recommended to practice at least the last 5-10 years of past questions to get a comprehensive understanding of recurring questions and trends. Can practicing BECE science past questions improve my exam score? Yes, consistent practice helps improve understanding, recall, and exam techniques, which can lead to better scores. Are there online platforms offering free BECE science past questions and solutions? Yes, several educational websites and forums offer free access to BECE science past questions and solutions for students' practice. What is the best way to review my answers after practicing BECE science past questions? Compare your answers with the correct solutions, understand any mistakes made, and study explanations to reinforce your knowledge and avoid similar errors in the future.

Related keywords: BECE science practice, BECE science exam, BECE science syllabus, BECE science revision, BECE science answers, BECE science tips, BECE science mock tests, BECE science guide, BECE science questions, BECE science study materials

Isaac Asimov Great Science Writers

Isaac Asimov Great Science Writers: A Legacy of Scientific Literacy and Imagination

Isaac Asimov is widely recognized as one of the most influential and prolific science writers of the 20th century. His contributions to popular science, science fiction, and education have left an indelible mark on both the scientific community and the general public. As a towering figure among great science writers, Asimov's ability to communicate complex scientific ideas with clarity, enthusiasm, and wit has inspired countless readers and shaped public understanding of science. This article explores the life, works, and enduring legacy of Isaac Asimov as a great science writer, highlighting his influence on science communication and his contributions to science literature.

Early Life and Background

Born on January 2, 1920, in Petrovichi, Russia, Isaac Asimov emigrated with his family to the United States at a young age. Settling in Brooklyn, New York, Asimov developed an early fascination with

reading and learning. His passion for science and literature grew rapidly, leading him to pursue biochemistry at Columbia University, where he earned his Ph.D. in 1948. This scientific background provided the foundation for his later writings, allowing him to interpret and communicate scientific principles with authority and insight.

Isaac Asimov as a Great Science Writer

Bridging Science and the Public

One of Asimov's greatest strengths was his ability to bridge the gap between complex scientific research and everyday understanding. He believed that science should be accessible and enjoyable, and he dedicated much of his career to making science comprehensible to the general public. His writing style combined clarity with enthusiasm, often infusing humor and storytelling to captivate readers.

Prolific Output and Range of Topics

Isaac Asimov authored over 500 books and numerous essays, covering a vast array of subjects beyond science, including history, religion, literature, and philosophy. His extensive bibliography demonstrates his versatility and commitment to education. Among his most notable works are science books such as *The Intelligent Man's Guide to Science*, *Asimov's New Guide to Science*, and *Understanding Physics*.

Key Qualities of Asimov's Science Writing

- **Clarity:** Simplifying complex ideas without losing essential details.
- **Engagement:** Using storytelling, anecdotes, and humor to draw readers in.
- **Accuracy:** Maintaining scientific integrity and rigor in explanations.
- **Inspiration:** Encouraging curiosity and critical thinking about science.

Major Works and Contributions

Popular Science Books

Isaac Asimov's popular science books are considered classics in science communication. Some of his most influential titles include:

- **The Intelligent Man's Guide to Science (1960):** An extensive overview of scientific principles and discoveries, designed for the layperson.

- **Asimov's New Guide to Science (1984):** An updated, comprehensive survey of scientific knowledge spanning physics, chemistry, biology, and astronomy.
- **Understanding Physics (1966):** An accessible introduction to the fundamental principles of physics, written in a clear and engaging style.
- **Understanding Chemistry (1977):** Simplifies complex chemical concepts for general readers.

Science Fiction and Its Role in Science Communication

While best known for his science fiction, Asimov's stories often reflected his scientific knowledge and curiosity. His Foundation series and Robot series not only entertained but also explored themes like robotics, artificial intelligence, and societal evolution?topics that continue to be relevant today. His fiction served as a vehicle to stimulate interest in science and technology among readers worldwide.

Educational and Reference Works

In addition to books for general audiences, Asimov authored textbooks and reference materials used in academic settings. His clear explanations and systematic approach have made his works valuable educational resources.

Impact and Legacy

Influence on Science Communication

Isaac Asimov revolutionized the way science is communicated. His ability to translate scientific jargon into engaging narratives inspired future generations of science writers, educators, and communicators. His works helped foster scientific literacy and skepticism, encouraging society to value evidence-based reasoning.

Inspiration for Future Writers

Many contemporary science writers cite Asimov as a primary influence. His success demonstrated that scientific topics could be made accessible and fascinating, paving the way for authors like Carl Sagan, Stephen Jay Gould, and Bill Bryson.

Recognition and Honors

Throughout his life, Asimov received numerous awards, including the Hugo, Nebula, and Bram Stoker Awards, as well as the Presidential Award for Science Writing. His prolific output and dedication to education have cemented his reputation as a great science writer.

Why Isaac Asimov Remains a Model for Science Writers Today

- **Passion for Science:** His genuine curiosity and enthusiasm are contagious.
- **Clarity of Explanation:** His ability to break down complex ideas remains a benchmark.
- **Versatility:** His writings span many disciplines, demonstrating the interconnectedness of knowledge.
- **Humor and Storytelling:** Making learning enjoyable and memorable.

Conclusion

Isaac Asimov's legacy as a great science writer endures because of his exceptional talent for communicating science in a way that is accessible, engaging, and inspiring. His works continue to educate and entertain, fostering curiosity and understanding about the universe we live in. As we look to the future of science communication, Asimov's example serves as a reminder that effective storytelling, clarity, and passion are essential tools for making science accessible to all. His contributions have not only shaped scientific literacy but also ignited the imaginations of countless readers, ensuring his place among the greatest science writers of all time.

Isaac Asimov: Great Science Writers and the Legacy of a Scientific Luminary

When contemplating the pantheon of science writers who have profoundly influenced both scientific literacy and popular understanding of complex concepts, Isaac Asimov stands out as a towering figure. His prolific output, clarity of explanation, and ability to intertwine scientific rigor with engaging storytelling cement his place among the greatest science writers of all time. Asimov's work not only demystified the intricacies of science but also inspired countless individuals to pursue scientific inquiry, making him an enduring figure in both literature and science communication.

Early Life and Intellectual Foundations

Understanding Asimov's contributions begins with an appreciation of his background. Born in 1920 in Russia and emigrating to the United States as a child, Asimov grew up in Brooklyn, New York. His early fascination with science and reading, fostered by a childhood immersed in science fiction magazines and books, laid the groundwork for his later pursuits. Self-educated through voracious reading, he developed a broad knowledge base that would underpin his extensive writing career.

His academic pursuits culminated in a Ph.D. in biochemistry from Columbia University. This scientific training provided him with a solid foundation in the scientific method, critical thinking, and the ability to communicate complex ideas with precision and clarity—traits that defined his writing style.

Asimov's Approach to Science Communication

Clarity and Accessibility

One of Asimov's defining characteristics as a science writer was his unparalleled ability to explain complex scientific concepts in simple, accessible language. Unlike technical journals or dense textbooks, his writings aimed to reach the general reader without sacrificing accuracy. This approach made science appealing and comprehensible, fostering curiosity among a broad audience.

He believed that science literacy was crucial for an informed society and dedicated much of his career to this cause. His explanations often employed analogies, step-by-step logical progression, and engaging narratives that bridged the gap between specialists and laypeople.

Scientific Accuracy and Rigor

While striving for accessibility, Asimov maintained rigorous scientific accuracy. His background in biochemistry and extensive research ensured that his writings reflected the current state of scientific knowledge. He was meticulous in citing sources and grounding his explanations in established science, which earned him respect from both scientists and readers.

Engagement Through Storytelling

Asimov's talent extended beyond mere explanation; he was a master storyteller. His use of anecdotes, historical context, and hypothetical scenarios made his science writing lively and memorable. This narrative style not only clarified concepts but also kept readers engaged, turning abstract ideas into compelling stories.

Major Works and Contributions

Popular Science Books

Asimov authored numerous books aimed at general audiences, making science approachable and enjoyable. Some of his most notable titles include:

- "The Intelligent Man's Guide to Science" (1960): A comprehensive overview of scientific principles, history, and developments, serving as a foundational text for general science enthusiasts.
- "Asimov's New Guide to Science" (1984): An updated and expanded version that covers advancements in physics, biology, astronomy, and more.
- "The Universe: From Flat Earth to Quasar" (1966): An accessible exploration of astronomy and

cosmology, illustrating the evolution of our understanding of the universe.

These works exemplify his ability to synthesize vast amounts of scientific knowledge into coherent narratives that educate and inspire.

Science Fiction and Its Influence

While primarily celebrated as a science communicator, Asimov's science fiction writing also contributed heavily to his status as a great science writer. His stories, especially the "Foundation" series and "Robot" series, explored themes of robotics, artificial intelligence, and societal evolution. These narratives not only entertained but also prompted philosophical and scientific debates about the future of technology.

His fiction often incorporated scientific principles, making complex ideas about robotics, ethics, and space exploration accessible and thought-provoking. This blending of storytelling with scientific speculation enhanced public interest in science and technology.

Histories and Essays

Asimov's essays and historical writings further showcase his depth as a science communicator. His series of essays covered topics like the history of science, mathematics, and medicine, highlighting the human stories behind scientific discoveries. His historical analyses, such as "The Human Brain," provided insights into how scientific understanding has evolved over centuries.

Impact and Legacy in Science Communication

Influence on Public Understanding of Science

Asimov's writings significantly contributed to the democratization of scientific knowledge. His ability to translate complex ideas into engaging narratives helped demystify science for millions. Many readers credit him with sparking their interest in science, leading some to pursue careers in the field.

His books have remained in print for decades, testament to their enduring relevance and popularity. Educational institutions often cite his works as supplementary materials for teaching science concepts.

Mentorship and Inspiration

Beyond his writings, Asimov served as a mentor and role model for aspiring science writers. His prolific output demonstrated that scientific communication could be both intellectually rigorous and widely accessible. He set a standard for clarity, enthusiasm, and integrity in science writing.

Recognition and Honors

Throughout his career, Asimov received numerous awards, including the Hugo, Nebula, and Bram Stoker Awards for his fiction, as well as accolades recognizing his contributions to science education and literature. His influence extends beyond the literary realm into science policy and education.

Critical Evaluation of Asimov's Style and Methodology

Strengths

- Clarity and Simplicity: His straightforward language made science understandable.
- Breadth of Knowledge: His multidisciplinary background allowed him to cover diverse scientific fields.
- Engagement: His storytelling kept readers invested in scientific concepts.
- Humility and Honesty: He acknowledged the limits of current knowledge and avoided sensationalism.

Limitations and Criticisms

- Some critics argue that Asimov's explanations, while clear, occasionally oversimplified nuanced scientific debates.
- His focus on established science sometimes limited his exploration of speculative or controversial ideas.
- Asimov's style, while accessible, was sometimes viewed as dry or lacking in emotional depth compared to other writers.

Despite these criticisms, his overall contribution remains monumental, and his impact on science communication is undeniable.

Conclusion: The Enduring Legacy of Isaac Asimov as a Great Science Writer

Isaac Asimov's towering legacy as a great science writer stems from his unparalleled ability to communicate scientific ideas with clarity, enthusiasm, and integrity. His writings have educated generations, inspired scientific curiosity, and bridged the gap between the scientific community and the public. Asimov demonstrated that science is not solely the domain of specialists but a vital part of human culture and understanding.

In an era where misinformation can spread rapidly, Asimov's model of clear, honest, and engaging

science communication remains a guiding light. His work not only enriched our knowledge of the universe but also exemplified the importance of science literacy in building a better, more informed society. As science continues to advance at an unprecedented pace, the influence of Isaac Asimov as a pioneer of science writing endures, inspiring new generations to explore, question, and understand the world through the lens of science.

QuestionAnswer Who was Isaac Asimov and why is he considered a great science writer? Isaac Asimov was a prolific American science fiction writer and biochemist known for his clear, engaging writing style and influential works that popularized science concepts. His ability to explain complex ideas to the general public has cemented his reputation as a great science communicator. What are some of Isaac Asimov's most famous science books? Some of Isaac Asimov's most famous science books include 'The Intelligent Man's Guide to Science,' 'Asimov's New Guide to Science,' and his numerous essays and popular science articles that cover a wide range of scientific topics. How did Isaac Asimov influence science education and popular science writing? Isaac Asimov revolutionized science education by making complex scientific ideas accessible and engaging to a broad audience through his clear explanations, humor, and storytelling, inspiring countless readers and aspiring scientists. What distinguishes Isaac Asimov's science writing from other science writers? Asimov's writing is distinguished by its clarity, logical structure, and ability to simplify complex topics without sacrificing accuracy, making science approachable and enjoyable for readers of all backgrounds. In what ways did Isaac Asimov contribute to science fiction and science fact? While renowned for his science fiction, Asimov also contributed significantly to science fact through his essays, books, and articles that explained real scientific principles, bridging the gap between science fiction imagination and scientific reality. What awards and recognitions did Isaac Asimov receive for his science writing? Isaac Asimov received numerous awards including the Hugo, Nebula, and Bram Stoker Awards, as well as the Presidential Award for Excellence in Science and Engineering Communication, recognizing his outstanding contributions to science literature. Why is Isaac Asimov still relevant in the field of science writing today? Asimov's ability to communicate science clearly and engagingly remains influential, inspiring modern science writers and educators, and his works continue to serve as foundational texts for science enthusiasts and students worldwide.

Related keywords: Isaac Asimov, science fiction, science writer, futurism, robotics, astrophysics, popular science, science literature, science essays, visionary authors

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