Research the Internet for an article on the current state of Java. Read the article and post your review on the Discussion Board in your own words, correctly quoting anything you may copy. Ensure you also:

* Share your opinions of the current state.
* Address how “Open Source” is related to the current version of Java.

From the beginning of Java, it has grown and adapted, creating new features through updates released for the programming language. Currently, the latest release for Java is Java Development Kit 23. One of the new features in JDK 23 “improves primitive type patterns,” which makes code “more concise and intuitive” (GeeksforGeeks, 2024). This helps to create code that is much more “expressive and efficient” (GeeksforGeeks, 2024). Along with refined primitive type patterns, changes to constructor bodies were implemented (GeeksforGeeks, 2024). According to GeeksforGeeks (2024), JDK 23 includes “new module import declarations,” “structured concurrency for error handling and reliability,” and a new “API for reading and writing Java class files.” Altogether, this latest version increases flexibility and is more concise with its code, all contributing to strengthened coherence.

Through Oracle, Java is free to download and is an open-source programming language, so anyone can openly download and operate it. According to Cogent University (2024), open-source software allows developers to “build upon existing codebases” and help breed new advancements through “experimentation and the sharing of ideas” (Section 1). Java being open source has improved overall “performance and functionality (Cogent University, 2024, section 1).

From what I have experienced and researched, I favor Java in its current state. I hope it remains open source, and I support programming languages that I could potentially contribute to. I also like that it allows further developer growth and brings many insights. As I continue to work through and learn more about Java, I am interested to see how new opinions will form and change. Although these updates in Java require time to learn, I feel they are widely beneficial for developers since it improves Java overall. Plus, as programmers, we should always be prepared for change.

**References**

Cogent University. (2024). *How Open Source Changed Software Development!* Cogentuniversity.com. <https://www.cogentuniversity.com/post/how-open-source-changed-software-development>

GeeksforGeeks. (2024, August 9). *JDK 23: New Features of Java 23*. GeeksforGeeks. https://doi.org/10/2058/8433/9314

**Assignment Requirements and Grading:**

* An initial post of approximately 250 words is due by **Thursday, 11:59 p.m., CST**.
* Submit your post by clicking on the assignment link above, then Create Thread. You must create a thread in order to view your peers' posts. Tip: Create your post in a Word document and then copy and paste your work into the thread.
* A minimum of three (3) responses, to the original threads of other students, of 100-200 words each are due by **Sunday, 11:59 p.m., CST**.
* To view the rubric grading criteria, click on the following link: [Discussion Board Grading Rubric](https://content.bellevue.edu/cst/csd/rubricdbv3.pdf).

Adrian, you did a really nice job on your post for this module! I did not realize that Java is used by over 90% of Fortune 500 companies, but that is an even further reason why this class is so important to learn! Knowing how to program with Java will open the door to many more workforce opportunities. You are spot on that Java is open-source and fosters a community-driven approach. I look forward to diving deeper into this community and really being able to explore. I do not see Java going anywhere anytime soon, so staying up to date with the new releases and features is essential.

Lea, you explained Java in its current state in-depth, and I enjoyed reading your post. I agree with you that Java truly is a dominant force in software development. You mention how Java faces competition from newer programming languages like Python and Go. Since we have learned to work with Java and Python, do you have a preference for which one you like better? Personally, I have enjoyed working with Java more than Python, but I have never worked with Go yet. I agree with your evaluation of Java’s strong state and do not see it going anywhere.

Joe, I enjoyed reading your post and found it very insightful. I was intrigued by all the sources everyone used this week since there seemed to be various reliable and relevant sources that added to the conversation. It seems crazy to think that Java is already on JDK version 23. It seems that Java is beyond versatile when it comes to business compatibility. Of course, security matters for the banking industry, but security should be at the forefront of all software development. I hope that Java remains open-source forever. Could you foresee Java turning away from being open source?