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ALGORITHM

1. Set up Maven:

- Install Maven if it's not already installed.
- Go to file, choose new maven project
- Check the checkbox "create simple maven project"
- Give groupId as "com.userAuthentication" and artifactId as "UserAuthentication" and click finish.

2. Create the authentication class:

- In your IDE or a text editor, create a new Java class called `AuthenticationUser` within the `src/main/java/com/userAuthentication` directory.
- Implement the necessary methods for user authentication, such as email and password or any other authentication-related functionality as per your requirements.

3. Create the JUnit test class:

- In the same `com.userAuthentication` package, create a new Java class called `AuthTest` within the `src/test/java` directory.
- Import the necessary JUnit and authentication class dependencies.
- Write test methods to verify the behavior of the authentication methods in the `Authentication` class.
- Use annotations such as `@Test` to mark each test method.

4. Run the JUnit tests:

- Right click on AuthTest class, run as JUnit.
- Check the test results in the console output to see if all the tests pass.

5. Review the test results:

- If all tests pass, you will see a summary of the test execution.
- If any tests fail, you will see detailed information about the failures and errors encountered during the test execution. Review the failures and modify your authentication class or tests accordingly.

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