## Grade received 100% Latest Submission Grade 100% To pass 80% or higher Rust Components and Patterns Review Learning Objectives 1. What is the purpose of using doctest in Rust? 1/1 point Submite your sisting intermetic documentation for Rust code Due M. Yerifying the correctness of code by writing comprehensive and accurate test cases To automate the deployment process of Rust applications. Try\_again To validate and enforce coding style and formatting in Rust ② Correct teceiv € grage! The purpose of using doctest in Rust is to verify the correctness of code by writing comprehensive and accurate test cases. To Pass 80% or higher Your grade is the benefit of organizing Rust code using public and private modules? 1/1 point 100% To reduce the size of a release binary Ensuring proper encapsulation and structuring for efficient project management Vigw Fechback Unproving the organization of code with modules and tests early our highest zone expour highest zone To prevent modification of public fields ( Correct Correct! Organizing Rust code using public and private modules ensures proper encapsulation and structuring for efficient project management of brillies. 3. How do you distinguish between public and private fields in Rust structs? 1/1 point By using the visibility modifiers (pub and private) for fields O By organizing and structuring modules with private headers O By using test failure messages that demonstrate private vs. public fields By utilizing doctest to verify code visibility © Correct Correct! In Rust, you distinguish between public and private fields in structs by using the visibility modifiers (pub and private) for fields. 4. Why are integration tests in Rust external to the library being tested? 1/1 point ○ To measure test coverage of a Rust program O Because it is only possible to test public code outside of the module To ensure testing of the library's functionality as it would be used by any other code, using only the public API Because integration tests require building a release binary external to the library being tested © Correct Correct! Integration tests in Rust are external to the library being tested to ensure testing of the library's functionality as it would be used by any other code, using only the public API. 5. Why are the assert\_eq! and assert\_ne! macros commonly used in Rust tests? 1/1 point O To expose values that are not exposed in certain fields (a) To conveniently compare two values for equality or inequality and print the values if the assertion fails To expose private functions and other code that is not exposed from the same module O To increase the visibility on all String and str types in failure © Correct Correct! The assert\_eq! and assert\_net macros in Rust tests are commonly used to conveniently compare two values for equality or inequality and print the values if the assertion fails. 1/1 point It isn't possible to expose private functions in Rust for testing while keeping them private in the runtime ( It isn't possible to test private functions in Rust with Cargo Because Rust's private rules allow testing of private function in separate modules Because Rust's privacy rules allow testing of private functions and their visibility within the same module ⊙ Correct Correct! Private functions can be tested directly in Rust because Rust's privacy rules allow testing of private functions and their visibility within the same module. 7. What is one of the main purposes of using a Makefile in Rust? O To control the dependency workflow To support and integrate with CI/CD systems like Jenkins or GitHub Actions To support advanced features flags of Cargo Streamlining and automating the build process of the Rust project Correct Correct The purpose of using a Makefile in Rust is to streamline and automate the build process of the Rust project. 8. What is the benefit of extending functionality with modules in Rust? O Verifying the correctness of code by writing comprehensive and accurate test cases Enhancing code organization and promoting code reusability and modularity O To ensure modules are included when building a release binary Modularized code is easier to test ⊙ Correct Correct: The benefit of extending functionality with modules in Rust is to enhance code organization and promote code reusability and modularity 9. What is the purpose of using Cargo for managing dependencies in Rust? 1/1 point O To control allow and deny lists in dependencies To easily manage feature flags from dependencies Simplifying and automating the process of handling external dependencies in Rust projects O To download multiple dependencies locally Correct Correct The purpose of using Cargo for managing dependencies in Rust is to simplify and automate the process of handling external dependencies in Rust projects. 10. Why is the #[cfg(test)] annotation used in Rust test modules? 1/1 point To include tests when building a Rust binary To enable running tests in the CLI when building To compile and run test code only when running cargo test, excluding it from cargo build O To allow loading test modules

⊙ Correct

Correct: The #[cfg[test]] annotation in Rust test modules is used to compile and run test code only when running cargo test, excluding it from cargo build.