

Extension for Visual Studio Code Tutorial

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Introduction

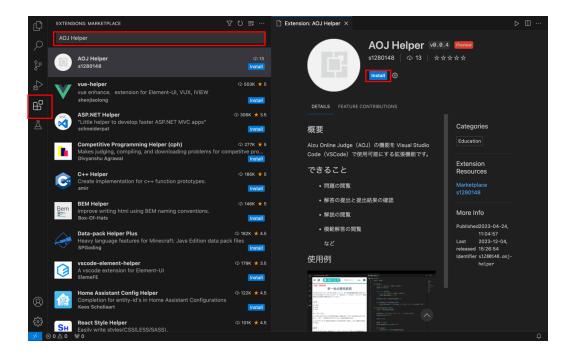
This tutorial explains how to use the Aizu Online Judge (AOJ) extension for Visual Studio Code (VSCode). Please note that the user interface and functionality may change in preparation for future releases.

With this extension, the following functions of AOJ can be used from VSCode.

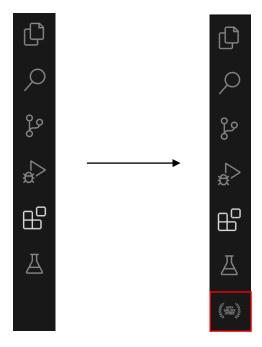
- Search problem
- View problem description
- Submit program and review judgment result
- View submission record
- View model answer
- Others

Install

Open the "Extensions" view of VSCode, search for "AOJ Helper" and install it.



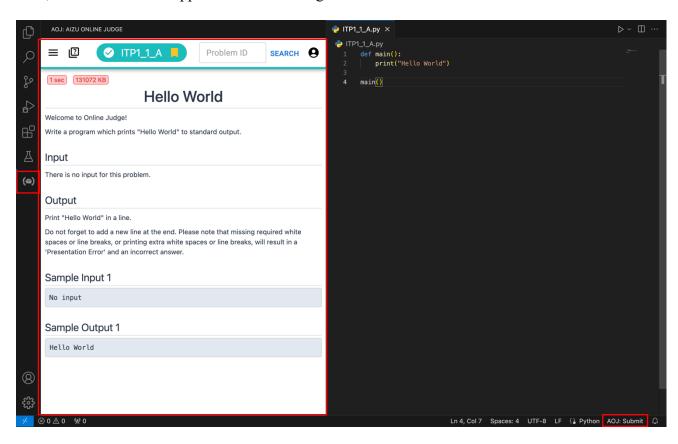
After installation is complete, an icon will be added to the activity bar (the bar on the left side of the screen)



Basic

Click the icon on the activity bar to display the AOJ view on the left side of the screen.

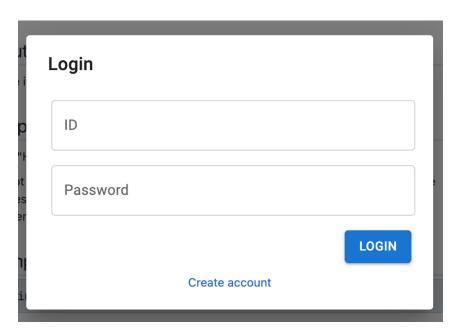
Also, the Submit button appears in the lower right corner of the screen.



Account Registration & Login

To use the extension, you need to log in to AOJ.

A pop-up will appear when login is required.



If you do not have an account, please create an AOJ account from "Create account".

If you have an account, please enter your ID and password to login.

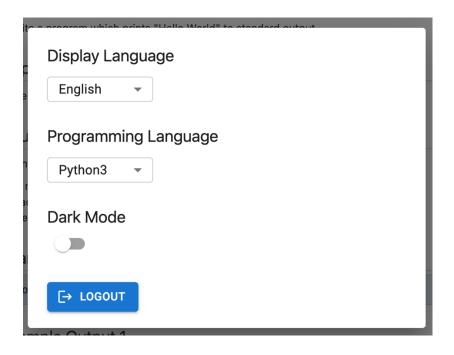
Environment Setting

Clicking on the **Q** icon opens the environment setting screen.



On the environment setting screen, you can

- Change display language (Japanese / English)
- Change programming language
- Toggle between themes (light mode / dark mode)
- Log out



Select Problem

Click on the icon to open the problem list screen.



On the Problem List screen, you can search for problems in each of the "Course", "Challenge",

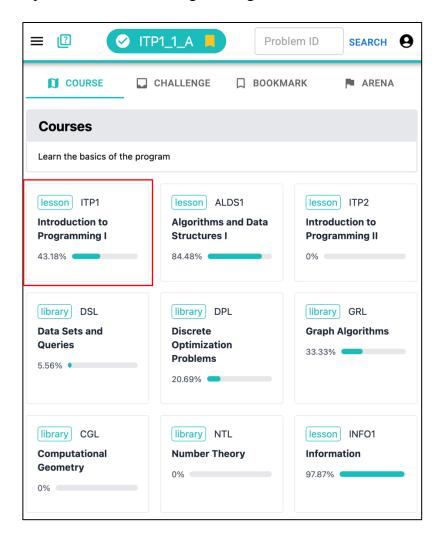
"Bookmark" and "Arena" categories.

As an example, select "Course" problems.

Each course is represented by a card.

The progress bar on each card indicates the progress of that course.

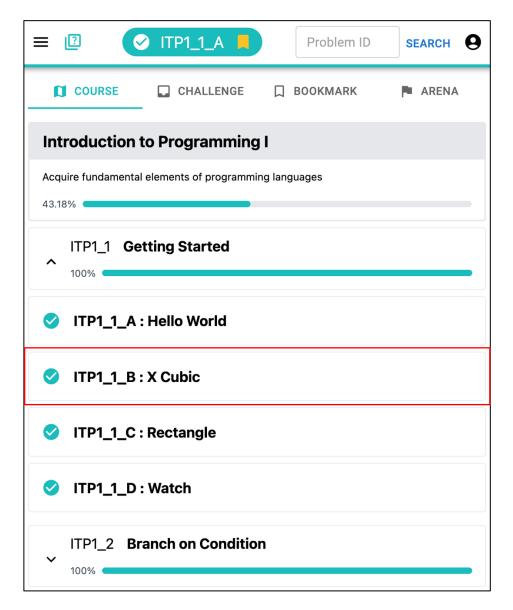
Open "Introduction to Programming I".



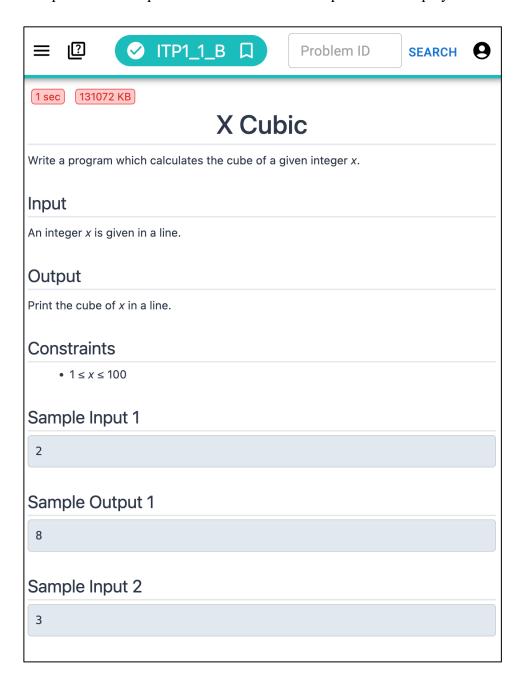
The course consists of several topics.

You can check the progress of each topic from the progress bar of each topic.

Open "ITP1_1_B: X Cubic".



The problem description screen for the selected problem is displayed.

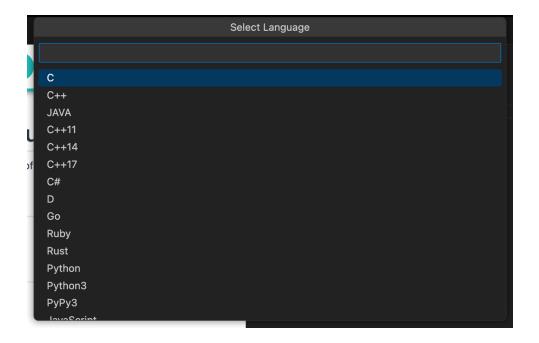


Submit to AOJ

The Submit button submits the contents of the currently displayed text editor to the currently displayed problem.



Click the Submit button to display the language selection menu.

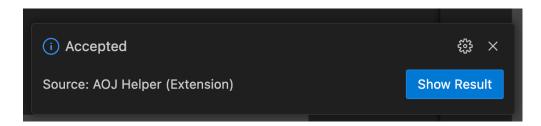


Once the submission language is selected, the program is submitted.

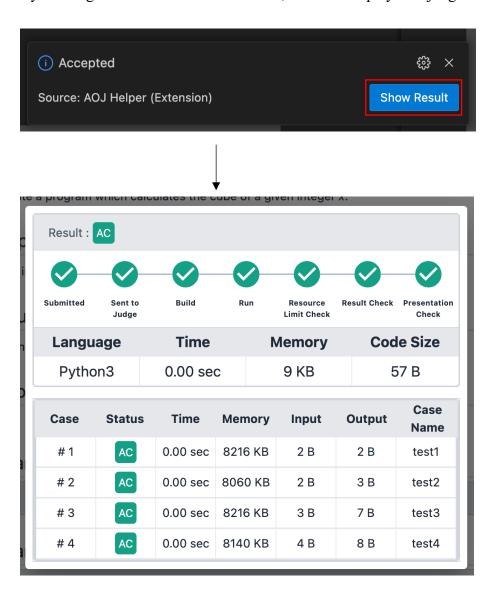
After submission, a message is displayed while the judgment is being made.



When the decision is complete, a message with the judgment result is displayed.



By clicking on the "Show Result" button, the view displays the judge's details.



Judge returns one of the following statuses.

AC Accepted

WA Wrong Answer

· Output was different from the output expected by the judge data.

PE Presentation Error

• Extra white space or line breaks, or no required white space or line breaks

CE Compile Error

• Failed to compile the submitted program.

Time Limit Exceeded

• The program did not finish within the time limit specified in the problem

MLE Memory Limit Exceeded

· Used more memory than specified in the problem

OLE Output Limit Exceeded

• The output size exceeds the limit.

RE Runtime Error

· An error occurred during the execution of the submitted program.

Submit to Arena

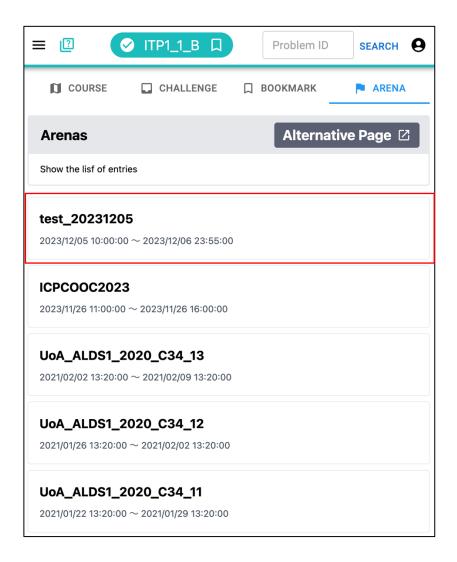
You can submit a problem to the Arena by selecting the "Arena" problem from the Problem List screen.

Click on the icon to open the problem list screen.



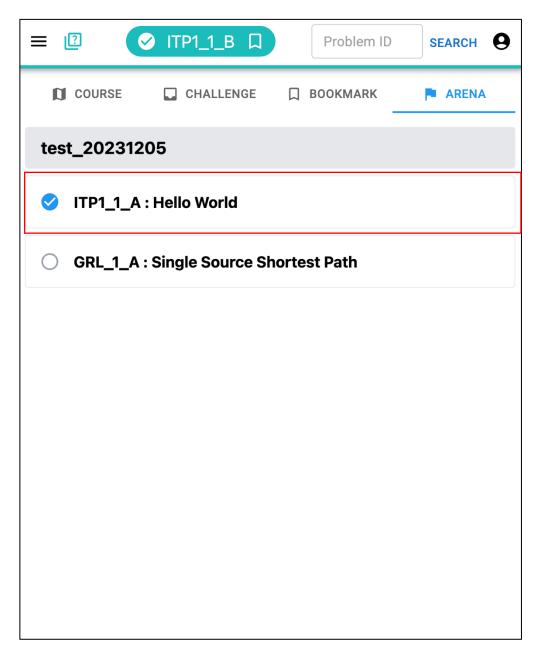
When you open the "Arena" tab, you can see a list of the arenas in which you have entered, in descending order of entry time.

Select "test 20231205."



The check mark displayed here indicates whether the corresponding problem has already been solved correctly in the arena.

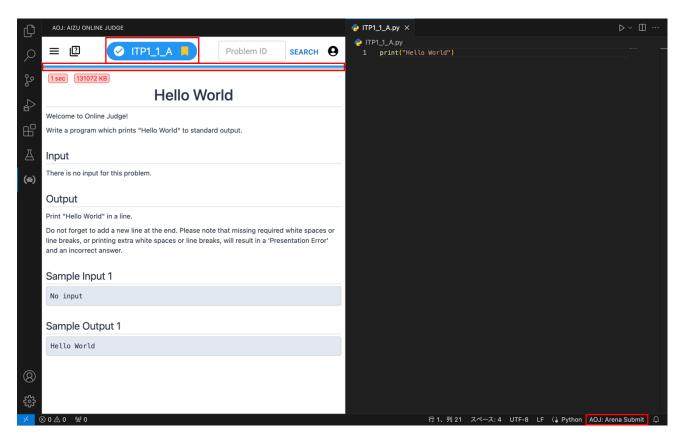
Select "ITP1_1_A : Hello World".



The problem description screen for the selected problem is displayed.

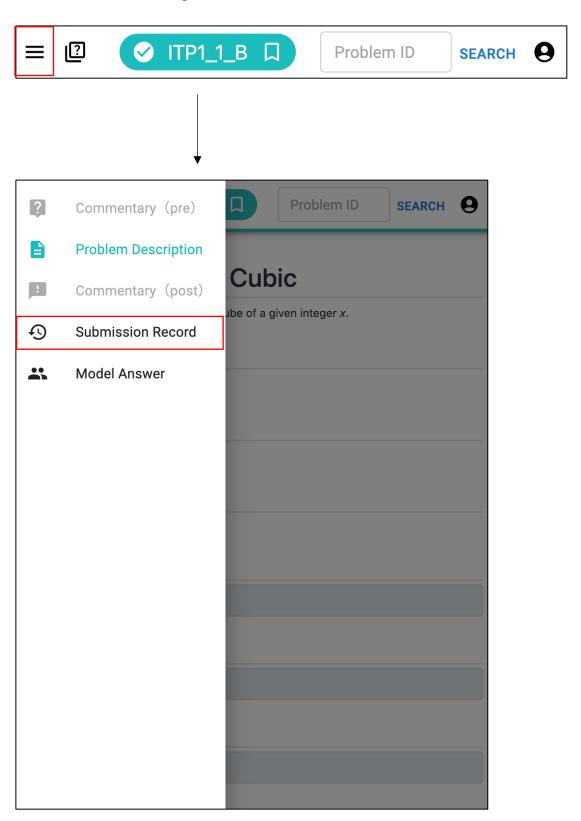
At this point, the theme color turns blue and the submit button changes to the arena submit button.

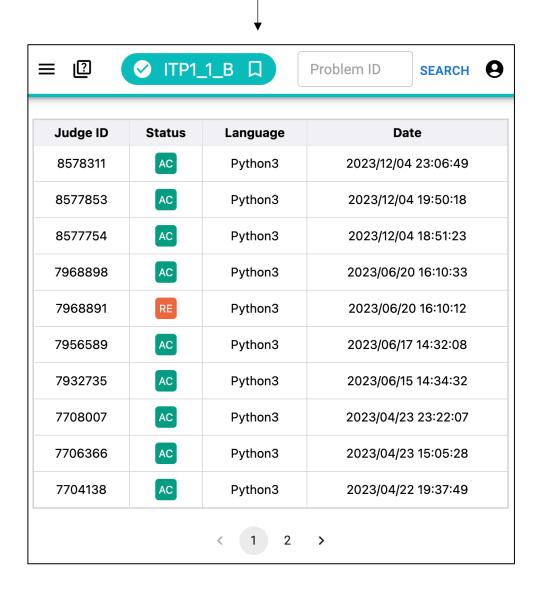
When you submit in this state, the submission is made to the selected arena.



View past submission records

Click on the ≡ icon to open the menu to view the "Submission Record".



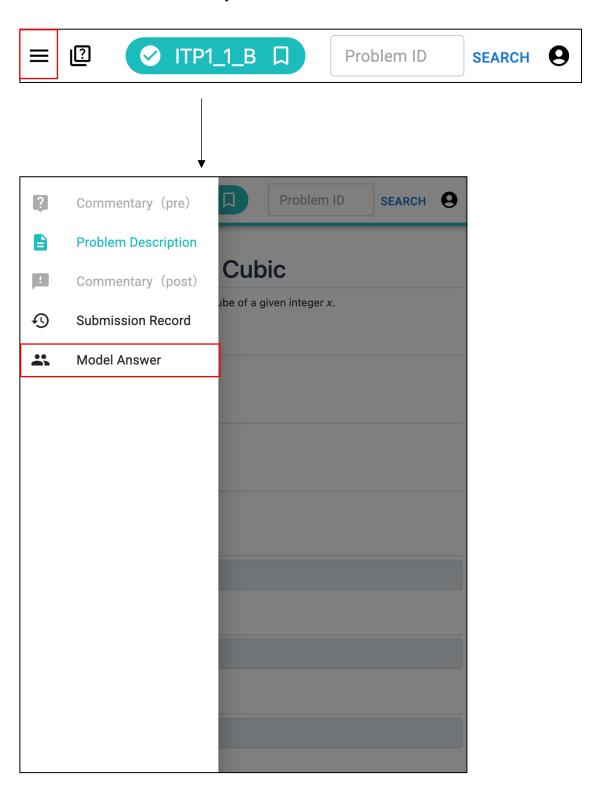


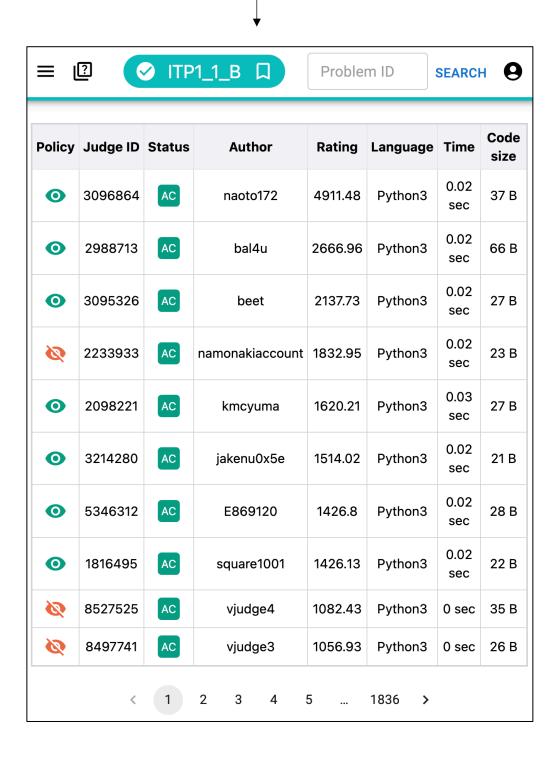
Click on a specific submission record from the list to view its code.

View model answers

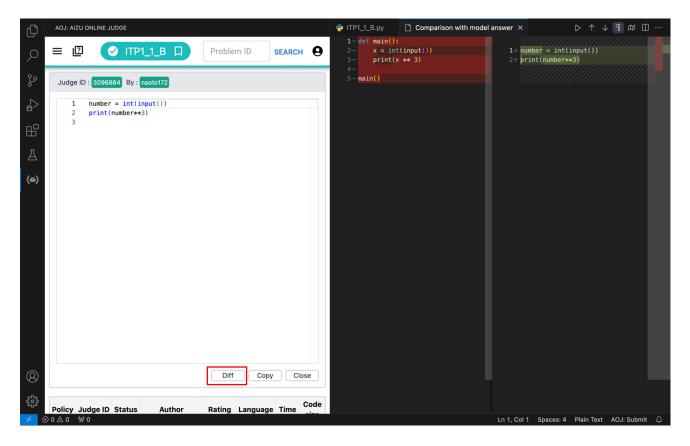
Click on the ≡ icon to open the menu to view the "Model Answer".

You can view codes answered by other users.





Answers are listed in descending order based on each user's rating. As with the submission record, you can click on a model answer from the list to view its code. Click on the "Diff" button to compare your code with the model answer code.

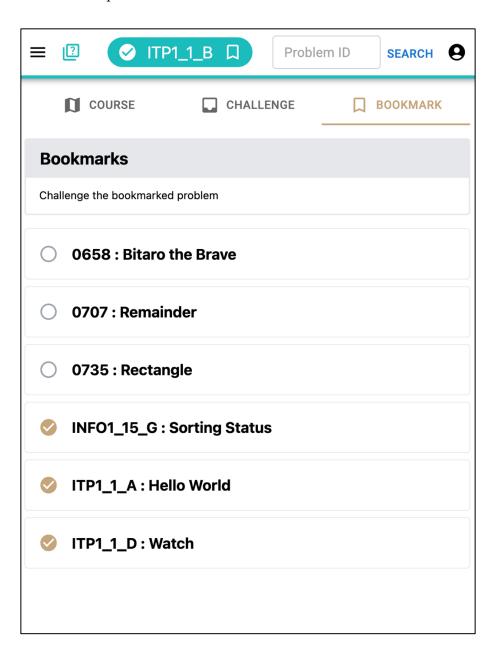


Bookmark

By clicking on the button, you can bookmark the current problem.



Bookmarked problems can be viewed from the Problem List screen.



Search Problem

You can open a question by entering its problem ID in the Problem Search form.

The problem ID is the ID assigned to each problem, as shown in the header.



Contact Us

This system is currently under development. Please contact m5271033@u-aizu.ac.jp to report bugs, suggestions, and requests.