
Lab 10 - Access

The Solar_System API is still not working

AdaCore

The purpose of this exercise is to use Access types to avoid passing Bodies as in out everywhere.

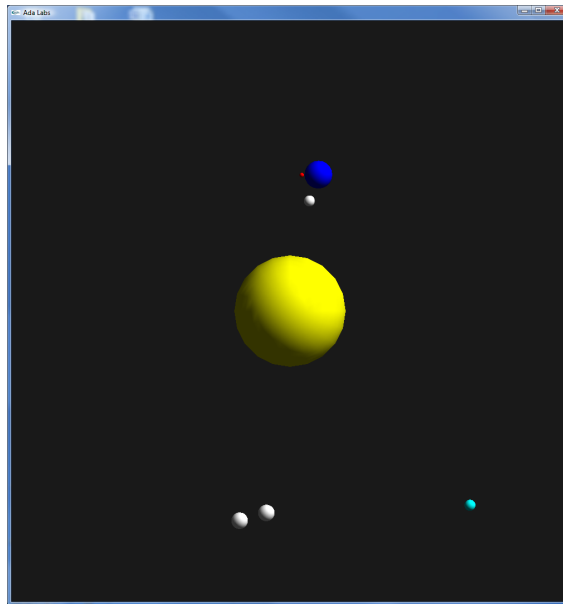


Figure 1: Expected result

Question 1

Define a type `Body_Access_T` as an access type to all `Body_T`.

Question 2

Implement `Get_Body` as defined in the specification of the `Solar_System` package.

Use `'Access` to return the access to the expected body.

Question 3

Modify `Init_Body` procedure as defined in the specification of the `Solar_System` package.

Update initialization calls in the `Main` procedure.

Question 4

Modify the Turns_Around field of Body_T type to be a Body_Access_T.

Question 5

Modify Move procedure as defined in the specification of the Solar_System package.

It's compiling now!

Question 6

What is the problem with accessibility check? Try to fix it.

Question 7

How to avoid using 'Unchecked_Access?