You are working on a library management system and need to implement a class called "Book" to represent books in the library. The class should have the following attributes and methods:

Attributes:

* title: representing the title of the book
* author: representing the author of the book
* publication\_year: representing the publication year of the book
* available\_copies: representing the number of available copies of the book

Methods:

1. **init**(self, title, author, publication\_year, available\_copies): Initializes the attributes of the book.
2. check\_availability(self): Returns the number of available copies of the book.
3. borrow\_book(self, num\_copies): Allows a user to borrow a specified number of copies of the book. Updates the available\_copies attribute accordingly.
4. return\_book(self, num\_copies): Allows a user to return a specified number of copies of the book. Updates the available\_copies attribute accordingly.
5. display\_info(self): Prints the title, author, publication year, and the number of available copies of the book.

Create an instance of the Book class with the following details:

* Title: "Python Crash Course"
* Author: "Eric Matthes"
* Publication Year: 2015
* Available Copies: 5

Perform the following operations:

1. Call the **display\_info()** method to display the book's information.
2. Call the **borrow\_book(3)** method to borrow 3 copies of the book.
3. Call the **display\_info()** method again to display the updated information.
4. Call the **return\_book(2)** method to return 2 copies of the book.
5. Call the **display\_info()** method one last time to display the final information.