

```
package ioc;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;

import jakarta.annotation.PostConstruct;
import jakarta.annotation.PreDestroy;

@Component
public class PrintCatalog implements CommandLineRunner {

    @Autowired
    // @Qualifier("python")
    Catalog catalog;

    // @Autowired
    // Catalog cat;

    public PrintCatalog() {
        System.out.println("PrintCatalog()");
        System.out.println(catalog);
    }

    @PostConstruct
    public void init() {
        System.out.println("PostConstruct");
        System.out.println(catalog);
    }

    @PreDestroy
    public void beforeDestory() {
        System.out.println("PreDestory");
    }

    @Override
    public void run(String... args) throws Exception {
        //System.out.println(catalog.hashCode());
        //System.out.println(cat.hashCode());

        for (var book : catalog.getBooks())
            System.out.println(book);
    }
}
```