**Programming Problem #5**

It’s 2002 all over again and our favorite DI (Dependency Injection) Framework have not been invented yet. Your task, should you choose to accept is to design & implement a dependency injection framework like spring.

What is expected of you is to come up with a first deliverable after about 2-4 hours of work. You are free to do any necessary research on the internet as with real task.

We do not expect you to complete all the features but at the bare minimum, have a basic dependency injection capability, and should be able to support spring bean scopes singleton and prototype.

Write the code with the intention of announcing your pet project on twitter, Hackernews or reddit to encourage contributors.

Code quality is of utmost importance to us, so write the code that you are proud to submit for a code review.

Deliverables:

* Git bundle of your solution or a link to your github repository
* README
  + Design considerations
  + Limitations
  + Getting Started / Usage Guide
* Unit Test
* You may have empty unit tests / implementation but at the bare minimum your solution should be able to demonstrate a DI by singleton & prototype scopes. For empty unit tests & implementation, clearly state what they are for, and given enough time what other features/functions you would have developed.

Constraints:

You may only use Java 1.8+ / Kotlin

Use build tools (Gradle / Maven)