

Annotation으로 변형

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Configuration.java --- configuration.xml

```
1 package com.my.config;
2
3 import org.springframework.context.annotation.Bean;
4
5 import com.my.vo.Product;
6
7 @org.springframework.context.annotation.Configuration
8 public class Configuration {
9     // configuration.xml 파일 java코드로 변형
10
11     @Bean(name="p")
12     public com.my.vo.Product getProduct() {
13         Product p = new Product();
14         // Setter Injection java 코드로 변형
15         // p.setProd_no("C0001");
16         // return p;
17
18         // 생성자 주입
19         return new Product("C0001", "아메리카노", 5000);
20     }
21 } // end of Configuration
```

```
<bean id="p" class="com.my.vo.Product">
  <!-- setter Injection -->
  <!-- <property name="prod_no" value="C0001"></property> -->

  <!-- constructor(생성자) 매개변수 주입 -->
  <constructor-arg index="0" value="C0001"></constructor-arg>
  <constructor-arg index="1" value="아이스아메리카노"></constructor-arg>
  <constructor-arg index="2" value="5000"></constructor-arg>
</bean>
```

```
@Bean(name="line")
public com.my.vo.OrderLine getOrderLine() {
    OrderLine line = new OrderLine();
    line.setOrder_no(1);
    line.setOrder_quantity(5);
    // bean 객체 참조
    line.setOrder_p(getProduct());

    return line;
}
```

```
<bean id="line" class="com.my.vo.OrderLine">
  <property name="order_no" value="1"></property>
  <property name="order_p" ref="p"></property>
  <property name="order_quantity" value="5"></property>
</bean>

<bean id="line2" class="com.my.vo.OrderLine">
  <property name="order_no" value="2"></property>
  <property name="order_p" ref="p"></property>
  <property name="order_quantity" value="3"></property>
</bean>
```

```
@Bean(name="line2")
public com.my.vo.OrderLine getOrderLine2() {
    OrderLine line2 = new OrderLine();
    line2.setOrder_no(2);
    line2.setOrder_quantity(3);
    // bean 객체 참조
    line2.setOrder_p(getProduct());

    return line2;
}
```

```
@Bean(name="info")
public com.my.vo.OrderInfo getOrderInfo() {
    List<OrderLine> lines = new ArrayList<OrderLine>();
    lines.add(getOrderLine());
    lines.add(getOrderLine2());

    OrderInfo info = new OrderInfo();
    info.setOrder_c(getCustomer());
    info.setLines(lines);

    return info;
}

@Bean(name="c")
public com.my.vo.Customer getCustomer() {
    return new Customer("id1", "p1", "홍길동", "경기도 성남시 삼평동");
}
```

```
<bean id="info" class="com.my.vo.OrderInfo">
  <constructor-arg name="order_c" ref="c"> </constructor-arg>
  <property name="order_dt">
    <null></null>
  </property>
  <property name="lines">
    <list>
      <ref bean="line"></ref>
      <ref bean="line2"></ref>
    </list>
  </property>
</bean>

<bean id="c" class="com.my.vo.Customer">
  <constructor-arg index="0" value="id1"></constructor-arg>
  <constructor-arg index="1" value="p1"></constructor-arg>
  <constructor-arg index="2" value="홍길동"></constructor-arg>
  <constructor-arg index="3" value="경기도 성남시 삼평동"></constructor-arg>
</bean>
```

```
@Bean(name="mapvo")
public com.my.vo.MapVO getMapvo() {
    MapVO mapvo = new MapVO();
    Map <String, Integer> map = new HashMap<String, Integer>();

    map.put("one", 1);
    map.put("two", 2);
    map.put("three", 3);

    mapvo.setMap(map);
    return mapvo;
}
```

```
<bean id="mapvo" class="com.my.vo.MapVO">
  <property name="map">
    <map>
      <entry key="one" value="1"> </entry>
      <entry key="two" value="2"> </entry>
      <entry key="three" value="3"> </entry>
    </map>
  </property>
</bean>
```

```
@Bean(name="propertiesvo")
public PropertiesVO getPropertiesvo() {
    Properties env = new Properties();
    env.setProperty("controller", "contoller.properties");
    env.setProperty("dao", "dao.properties");
    env.setProperty("msg", "msg.properties");

    return new PropertiesVO(env);
}
```

```
<bean id="propertiesvo" class="com.my.vo.PropertiesVO">
    <constructor-arg>
        <props>
            <prop key="controller">contoller.properties</prop>
            <prop key="dao">dao.properties</prop>
            <prop key="msg">msg.properties</prop>
        </props>
    </constructor-arg>
</bean>
```

StartContainer.java