

```
/*
Pro Spring
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*/
```

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////////////////////////////////////////////////////////////////
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```
//File: autowiring.xml
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN//EN" "http://www.springframework.org/dtd/spring-
beans.dtd">
```

```
<beans>
  <bean id="foo" class="Foo"/>
  <bean id="bar" class="Bar"/>

  <bean id="targetByName" autowire="byName" class="Target"/>
  <bean id="targetByType" autowire="byType" class="Target"/>
  <bean id="targetConstructor" autowire="constructor" class="Target"/>
  <bean id="targetAutodetect" autowire="autodetect" class="Target"/>
</beans>
```

```
////////////////////////////////////////////////////////////////
```

```
public class Bar {
}
```

```
////////////////////////////////////////////////////////////////
```

```
public class Foo {
}
```

```
////////////////////////////////////////////////////////////////
```

```
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.xml.XmlBeanFactory;
import org.springframework.core.io.FileSystemResource;
```

```
public class Target {

  private Foo foo;
  private Foo foo2;

  private Bar bar;

  public Target() {
  }

  public Target(Foo foo) {
    System.out.println("Target(Foo) called");
  }
}
```

```

}

public Target(Foo foo, Bar bar) {
    System.out.println("Target(Foo, Bar) called");
}

public void setFoo(Foo foo) {
    this.foo = foo;
    System.out.println("Property foo set");
}

public void setFoo2(Foo foo) {
    this.foo2 = foo;
    System.out.println("Property foo2 set");
}

public void setMyBarProperty(Bar bar) {
    this.bar = bar;
    System.out.println("Property myBarProperty set");
}

public static void main(String[] args) {
    BeanFactory factory = new XmlBeanFactory(new FileSystemResource(
        "build/autowiring.xml"));

    Target t = null;

    System.out.println("Using byName:\n");
    t = (Target) factory.getBean("targetByName");

    System.out.println("\nUsing byType:\n");
    t = (Target) factory.getBean("targetByType");

    System.out.println("\nUsing constructor:\n");
    t = (Target) factory.getBean("targetConstructor");

    System.out.println("\nUsing autodetect:\n");
    t = (Target) factory.getBean("targetAutodetect");
}
}

```