Exercise (Spring Container)

What is the output ?

Q1

```java
1 usage
@SpringBootApplication
public class SpringPollApplication {

    public static void main(String[] args) { SpringApplication.run(SpringPollApplication.class, args); }


    @Bean
    public String getMessage1(){
        System.out.println("hey from message1");
        return "1";
    }
}
```

A1: Hey from message1

Q2

A2: Hey from message1
hey from message2

```java
1 usage
@SpringBootApplication
public class SpringPollApplication {

    public static void main(String[] args) { SpringApplication.run(SpringPollApplication.class, args); }


    @Bean
    @Qualifier("1")
    public String getMessage1(){
        System.out.println("hey from message1");
        return "1";
    }
    @Bean
    public String getMessage2(@Qualifier("1") String data ){
        System.out.println("hey from message2");
        return data ;
    }
```

Q3

```java
    @Bean
    @Qualifier("1")
    public String getMessage1(){
        System.out.println("hey from message1");
        return "1";
    }

    @Bean
    @Qualifier("2")
    public String getMessage2(@Qualifier("3") String data ){
        System.out.println("hey from message2");
        return data;
    }

    @Bean
    @Qualifier("3")
    public String getMessage3(){
        System.out.println("hey from message3");
        return "3" ;
    }
```

A3: hey from message1
hey from message3
hey from message2

Or hey from message3
hey from message2
hey from message1

Q4

```java
    @Bean
    @Qualifier("1")
    public String getMessage1(){
        System.out.println("hey from message1");
        return "1";
    }


    @Bean
    @Qualifier("2")
    public String getMessage2(@Qualifier("3") String data ){
        System.out.println("hey from message2");
        return data;
    }


    @Bean
    @Qualifier("3")
    public String getMessage3(){
        System.out.println("hey from message3");
        return "3" ;
    }
```

```java
@Component
public class MainController {

    1 usage
    String data;

    public MainController(@Qualifier("1") String data){
        this.data=data;
        System.out.println("hey from Main controller");
    }

}
```

Q5

A4: hey from message1
hey from mainController
hey from message3
hey from message2

A4: hey from message3
hey from message2
hey from message1
hey from mainController

3

```
15
16      @Bean
17      @Qualifier("1")
18      public String getMessage1(MainController mainController){
19          System.out.println("hey from message1");
20          return "1";
21      }
22
23      @Bean
24      @Qualifier("2")
25      public String getMessage2(@Qualifier("3") String data ){
26          System.out.println("hey from message2");
27          return data;
28      }
29
30      @Bean
31      @Qualifier("3")
32      public String getMessage3(){
33          System.out.println("hey from message3");
34          return "3" ;
35      }
```

```
import org.springframework.beans.factory.annotation.Qualifier;
import org.springframework.stereotype.Component;

1 usage
@Component
public class MainController {

    1 usage
    String data;

    public MainController(@Qualifier("2") String data){
        this.data=data;
        System.out.println("hey from Main controller");
    }

}
```

A5:hey from message3
hey from message2
hey from mainController
hey from message1

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