

## Exercise (Spring Container)

What is the output ?

Q1

```
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

```

1 usage
2 @SpringBootApplication
3 public class SpringPollApplication {
4
5     public static void main(String[] args) { SpringApplication.run(SpringPollApplication.class, args); }
6
7     @Bean
8     @Qualifier("1")
9     public String getMessage1(){
10         System.out.println("hey from message1");
11         return "1";
12     }
13
14     @Bean
15     public String getMessage2(@Qualifier("1") String data ){
16         System.out.println("hey from message2");
17         return data ;
18     }
19 }

```

Q3

```

1 @Bean
2 @Qualifier("1")
3 public String getMessage1(){
4     System.out.println("hey from message1");
5     return "1";
6 }
7
8 @Bean
9 @Qualifier("2")
10 public String getMessage2(@Qualifier("3") String data ){
11     System.out.println("hey from message2");
12     return data;
13 }
14
15 @Bean
16 @Qualifier("3")
17 public String getMessage3(){
18     System.out.println("hey from message3");
19     return "3" ;
20 }

```

A3: hey from message1  
 hey from message3  
 hey from message2

Or hey from message3  
 hey from message2  
 hey from message1

Q4

```
@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" ;
}
```

```
@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

```

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

Abdullah Alzubaidi