

CS544 EA Spring

AOP: Sequence

## Sequence

- Say you add 2 before advices on one method
  - Which runs first?
- The order of execution is based on the order that Spring finds the advice methods
  - First the order in which Aspect classes are found
    - Order of <bean> tags in xml
    - Alphabetic Order in which component scan finds them
  - Then order of advice methods in class

```
@Aspect
public class TraceAdvice1 {
    @Before("execution(* accountpackage.AccountService.addAccount(..))")
    public void tracemethodA(JoinPoint joinpoint) {
        System.out.println("TraceAdvice1:tracemethodA");
    }
    @Before("execution(* accountpackage.AccountService.addAccount(..))")
    public void tracemethodB(JoinPoint joinpoint) {
        System.out.println("TraceAdvice1:tracemethodB");
    }
}
```

```
@Aspect
public class TraceAdvice2 {
    @Before("execution(* accountpackage.AccountService.addAccount(..))")
    public void tracemethodA(JoinPoint joinpoint) {
        System.out.println("TraceAdvice2:tracemethodA");
    }
    @Before("execution(* accountpackage.AccountService.addAccount(..))")
    public void tracemethodB(JoinPoint joinpoint) {
        System.out.println("TraceAdvice2:tracemethodB");
    }
}
```

```
<aop:aspecti-autoproxy/>
  <bean id="accountService" class="accountpackage.AccountService"/>
  <bean id="traceAdvice2" class="aopadvice.TraceAdvice2"/>
                                                                          Switching order of
  <bean id="traceAdvice1" class="aopadvice.TraceAdvice1"/>
                                                                             <br/>
<br/>
tags
@Aspect
public class TraceAdvice1 {
  @Before("execution(* accountpackage.AccountService.addAccount(...))")
 public void tracemethodA(JoinPoint joinpoint) {
     System.out.println("TraceAdvice1:tracemethodA");
  @Before("execution(* accountpackage.AccountService.addAccount(...))")
 public void tracemethodB(JoinPoint joinpoint) {
     System.out.println("TraceAdvice1:tracemethodB");
@Aspect
public class TraceAdvice2 {
  @Before("execution(* accountpackage.AccountService.addAccount(..))")
  public void tracemethodA(JoinPoint joinpoint) {
     System.out.println("TraceAdvice2:tracemethodA");
  @Before("execution(* accountpackage.AccountService.addAccount(..))")
 public void tracemethodB(JoinPoint joinpoint) {
     System.out.println("TraceAdvice2:tracemethodB");
```