```
package com.example;
public class UserService {
 private UserRepository userRepository;
 public UserService(UserRepository userRepository) {
   this.userRepository = userRepository;
 }
 public String getWelcomeMessage(int userId) {
   String name = userRepository.findUserNameByld(userld);
   return "Welcome, " + name;
 }
 public void greetlfValidUser(int userId) {
   if (userId > 0) {
     userRepository.findUserNameById(userId);
   }
 }
}
package com.example;
import org.junit.jupiter.api.Test;
import static org.mockito.Mockito.*;
```

```
public class UserServiceTest {
 @Test
 public void testVerifyMethodCalled() {
   UserRepository mockRepo = mock(UserRepository.class);
   UserService service = new UserService(mockRepo);
   service.greetlfValidUser(100);
   verify(mockRepo).findUserNameByld(100); // ✓ Check interaction happened
 }
 @Test
 public void testVerifyMethodNotCalled() {
   UserRepository mockRepo = mock(UserRepository.class);
   UserService service = new UserService(mockRepo);
   service.greetIfValidUser(0);
   verify(mockRepo, never()).findUserNameById(anyInt());
 }
```

```
@Test
```

```
public void testVerifyCallCount() {
```

```
UserRepository mockRepo = mock(UserRepository.class);
UserService service = new UserService(mockRepo);

service.greetIfValidUser(10);
service.greetIfValidUser(10);

verify(mockRepo, times(2)).findUserNameById(10);
}
```

OUTPUT:

