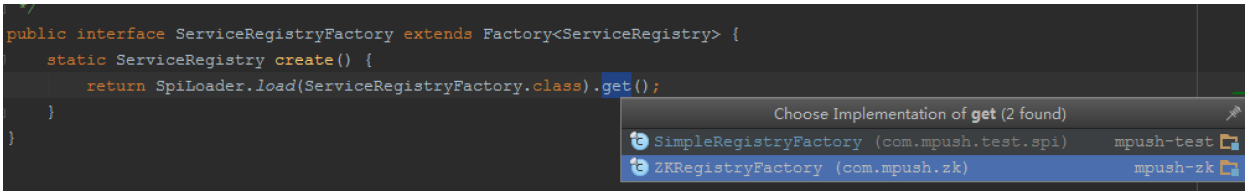
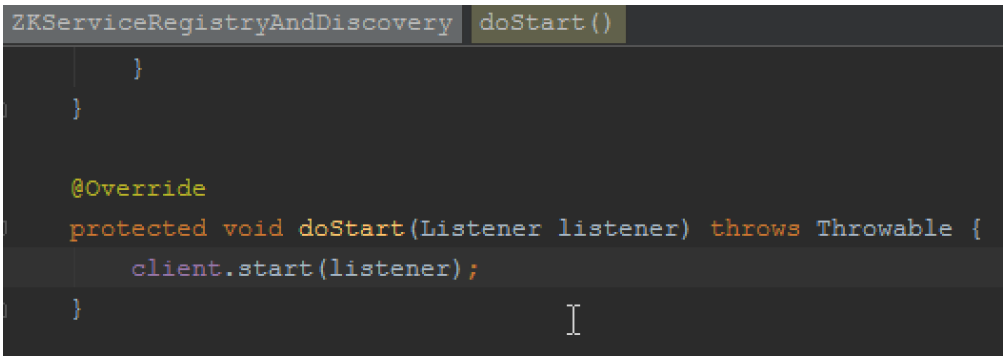
服务注册模块

```java
public final class ServiceRegistryBoot extends BootJob {

    @Override
    protected void start() {
        Logs.Console.info("init service registry waiting for connected...");
        ServiceRegistryFactory.create().syncStart(); 1
        startNext(); 2
    }

    @Override
    protected void stop() {
        stopNext();
        ServiceRegistryFactory.create().syncStop();
        Logs.Console.info("service registry closed...");
    }
}
```

1、通过SPI，找到mpush-zk模块中ServiceRegistryFactory接口的实现类ZKRegistryFactory，得到ZKServiceRegistryAndDiscovery实例；



先调用ZKServiceRegistryAndDiscovery的父类BaseService#syncStart()方法，进而调用ZKServiceRegistryAndDiscovery#doStart()启动ZKClient；



2、调用startNext继续调用下一个BootChain

服务发现模块

与上面类似，最终也是通过SPI，找到mpush-zk模块中ServiceDiscoveryFactory接口的实现类ZKDiscoveryFactory，得到ZKServiceRegistryAndDiscovery实例；

总结：

这两个过程，都是拿到同一个ZKServiceRegistryAndDiscovery实例，然后调用同一个doStart()启动ZKClient，不会启动ZKClient两次，因为做了Listener控制(见BaseService)