

JSB '19 - P2

Time limit: 2.5s **Memory limit:** 64M

Please call the method `flag()` in the class `Secret`.

Download the Java agent [here](#).

Download the source code of the agent [here](#).

You can test locally using the command `java -javaagent:p2_agent.jar YourClass`.

Source Code

File: `Agent.java`

```
import java.lang.instrument.*;
import java.lang.reflect.ReflectPermission;
import java.security.ProtectionDomain;
import java.security.*;

class Secret {
    private void flag() {
        System.out.println("CTF-00000000000000000000000000000000");
    }
};

public class Agent {
    public static void premain(final String agentArgs, final Instrumentation inst) {
        System.setSecurityManager(new SecurityManager() {
            public void checkPermission(Permission perm) {
                if (perm instanceof ReflectPermission) {
                    Class[] ctx = getClassContext();
                    // allow non-submitted classes to use reflection
                    if (ctx[ctx.length - 1].getPackage() == null) {
                        System.exit(7);
                    }
                }
            }
        });
    }
}
```