WESLLEY FRANCIS FERNANDES – RM81609

**- CRIANDO A CLASSE JUNIT**

package br.com.fiap;

import static org.junit.jupiter.api.Assertions.\*;

import org.junit.jupiter.api.Test;

class JulgamentoPrisioneiroTeste {

@Test

void test() {

fail("Not yet implemented");

}

}

**- CONSTRUINDO A CLASSE COM BASE NO ALGORITMO**

package br.com.fiap;

import static org.junit.jupiter.api.Assertions.assertEquals;

import org.junit.jupiter.api.Test;

class JulgamentoPrisioneiroTeste extends JulgamentoPrisioneiro{

@Test

void JulgamentoPrisioneiroTeste() {

int PENA\_INOCENCIA = 0;

int PENA\_CONDENACAO\_MUTUA = 5;

int PENA\_CONDENACAO\_INDIVIDUAL = 10;

int PENA\_CONDENACAO\_CUMPLICES = 1;

JulgamentoPrisioneiro prisioneiro = new JulgamentoPrisioneiro();

int resultadoEsperado = PENA\_CONDENACAO\_MUTUA;

int resultadoReal = prisioneiro.calculaPena("Culpado", "Culpado");

assertEquals(resultadoEsperado, resultadoReal);

}

}

**- ERRO AO TENTAR RODAR OS TESTES, PORQUE O TIPO RESPOSTA DA CLASSE JAVA NÃO FOI CRIADO.**

* **JUNIT**

package br.com.fiap;

import static org.junit.jupiter.api.Assertions.assertEquals;

import org.junit.jupiter.api.Test;

class JulgamentoPrisioneiroTeste extends JulgamentoPrisioneiro{

@Test

void JulgamentoPrisioneiroTeste() {

int PENA\_INOCENCIA = 0;

int PENA\_CONDENACAO\_MUTUA = 5;

int PENA\_CONDENACAO\_INDIVIDUAL = 10;

int PENA\_CONDENACAO\_CUMPLICES = 1;

JulgamentoPrisioneiro prisioneiro = new JulgamentoPrisioneiro();

int resultadoEsperado = PENA\_CONDENACAO\_MUTUA;

int resultadoReal = prisioneiro.calculaPena("Culpado", "Culpado");

assertEquals(resultadoEsperado, resultadoReal);

}

}

* **JAVA**

package br.com.fiap;

public class JulgamentoPrisioneiro {

private int PENA\_INOCENCIA = 10;

private int PENA\_CONDENACAO\_MUTUA = 15;

private int PENA\_CONDENACAO\_INDIVIDUAL = 10;

private int PENA\_CONDENACAO\_CUMPLICES = 11;

public int calculaPena(Resposta respostaPrisioneiroA, Resposta respostaPrisioneiroB) {

if (respostaPrisioneiroA == Resposta.CULPADO) {

if (respostaPrisioneiroB == Resposta.CULPADO) {

return PENA\_CONDENACAO\_MUTUA;

} else {

return PENA\_INOCENCIA;

}

} else {

if (respostaPrisioneiroB == Resposta.CULPADO) {

return PENA\_CONDENACAO\_INDIVIDUAL;

} else {

return PENA\_CONDENACAO\_CUMPLICES;

}

}

}

}**LOG**

org.junit.platform.commons.JUnitException: TestEngine with ID 'junit-jupiter' failed to discover tests

at org.junit.platform.launcher.core.DefaultLauncher.discoverEngineRoot(DefaultLauncher.java:189)

at org.junit.platform.launcher.core.DefaultLauncher.discoverRoot(DefaultLauncher.java:168)

at org.junit.platform.launcher.core.DefaultLauncher.discover(DefaultLauncher.java:124)

at org.eclipse.jdt.internal.junit5.runner.JUnit5TestReference.<init>(JUnit5TestReference.java:46)

at org.eclipse.jdt.internal.junit5.runner.JUnit5TestLoader.createUnfilteredTest(JUnit5TestLoader.java:76)

at org.eclipse.jdt.internal.junit5.runner.JUnit5TestLoader.createTest(JUnit5TestLoader.java:66)

at org.eclipse.jdt.internal.junit5.runner.JUnit5TestLoader.loadTests(JUnit5TestLoader.java:53)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:526)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:770)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:464)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:210)

Caused by: org.junit.platform.commons.JUnitException: ClassSelector [className = 'br.com.fiap.JulgamentoPrisioneiroTeste'] resolution failed

at org.junit.platform.launcher.listeners.discovery.AbortOnFailureLauncherDiscoveryListener.selectorProcessed(AbortOnFailureLauncherDiscoveryListener.java:39)

at org.junit.platform.engine.support.discovery.EngineDiscoveryRequestResolution.resolveCompletely(EngineDiscoveryRequestResolution.java:102)

at org.junit.platform.engine.support.discovery.EngineDiscoveryRequestResolution.run(EngineDiscoveryRequestResolution.java:82)

at org.junit.platform.engine.support.discovery.EngineDiscoveryRequestResolver.resolve(EngineDiscoveryRequestResolver.java:113)

at org.junit.jupiter.engine.discovery.DiscoverySelectorResolver.resolveSelectors(DiscoverySelectorResolver.java:45)

at org.junit.jupiter.engine.JupiterTestEngine.discover(JupiterTestEngine.java:69)

at org.junit.platform.launcher.core.DefaultLauncher.discoverEngineRoot(DefaultLauncher.java:181)

... 10 more

Caused by: java.lang.NoClassDefFoundError: Resposta

at java.lang.Class.getDeclaredMethods0(Native Method)

at java.lang.Class.privateGetDeclaredMethods(Class.java:2701)

at java.lang.Class.privateGetPublicMethods(Class.java:2902)

at java.lang.Class.privateGetPublicMethods(Class.java:2917)

at java.lang.Class.getMethods(Class.java:1615)

at org.junit.platform.commons.util.ReflectionUtils.getDefaultMethods(ReflectionUtils.java:1436)

at org.junit.platform.commons.util.ReflectionUtils.getDeclaredMethods(ReflectionUtils.java:1409)

at org.junit.platform.commons.util.ReflectionUtils.findMethod(ReflectionUtils.java:1287)

at org.junit.platform.commons.util.ReflectionUtils.isMethodPresent(ReflectionUtils.java:1188)

at org.junit.jupiter.engine.discovery.predicates.IsTestClassWithTests.hasTestOrTestFactoryOrTestTemplateMethods(IsTestClassWithTests.java:50)

at org.junit.jupiter.engine.discovery.predicates.IsTestClassWithTests.test(IsTestClassWithTests.java:46)

at org.junit.jupiter.engine.discovery.ClassSelectorResolver.resolve(ClassSelectorResolver.java:67)

at org.junit.platform.engine.support.discovery.EngineDiscoveryRequestResolution.lambda$resolve$2(EngineDiscoveryRequestResolution.java:134)

at java.util.stream.ReferencePipeline$3$1.accept(ReferencePipeline.java:193)

at java.util.ArrayList$ArrayListSpliterator.tryAdvance(ArrayList.java:1359)

at java.util.stream.ReferencePipeline.forEachWithCancel(ReferencePipeline.java:126)

at java.util.stream.AbstractPipeline.copyIntoWithCancel(AbstractPipeline.java:499)

at java.util.stream.AbstractPipeline.copyInto(AbstractPipeline.java:486)

at java.util.stream.AbstractPipeline.wrapAndCopyInto(AbstractPipeline.java:472)

at java.util.stream.FindOps$FindOp.evaluateSequential(FindOps.java:152)

at java.util.stream.AbstractPipeline.evaluate(AbstractPipeline.java:234)

at java.util.stream.ReferencePipeline.findFirst(ReferencePipeline.java:464)

at org.junit.platform.engine.support.discovery.EngineDiscoveryRequestResolution.resolve(EngineDiscoveryRequestResolution.java:185)

at org.junit.platform.engine.support.discovery.EngineDiscoveryRequestResolution.resolve(EngineDiscoveryRequestResolution.java:125)

at org.junit.platform.engine.support.discovery.EngineDiscoveryRequestResolution.resolveCompletely(EngineDiscoveryRequestResolution.java:91)

... 15 more

Caused by: java.lang.ClassNotFoundException: Resposta

at java.net.URLClassLoader.findClass(URLClassLoader.java:382)

at java.lang.ClassLoader.loadClass(ClassLoader.java:418)

at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:355)

at java.lang.ClassLoader.loadClass(ClassLoader.java:351)

... 40 more

**- CORRIGINDO ERRO CRIANDO UMA ENUN CLASSE RESPOSTA COM ‘CULPADO’ E ‘INOCENTE’**

package br.com.fiap;

public enum Resposta {

CULPADO, INOCENTE

}

**-ERRO ENCONTRADO EM DIFERENCAS ENTRE OS VALORES INICIADOS NAS VARIAVEIS DA CLASSE JAVA PARA O ALGORITMO**

* **ALGORITMO**

int PENA\_INOCENCIA = 0;

int PENA\_CONDENACAO\_MUTUA = 5;

int PENA\_CONDENACAO\_INDIVIDUAL = 10;

int PENA\_CONDENACAO\_CUMPLICES = 1;

* **CLASSE JAVA**

private int PENA\_INOCENCIA = 10;

private int PENA\_CONDENACAO\_MUTUA = 15;

private int PENA\_CONDENACAO\_INDIVIDUAL = 10;

private int PENA\_CONDENACAO\_CUMPLICES = 11;

* **LOG**

org.opentest4j.AssertionFailedError: expected: <5> but was: <15>

at org.junit.jupiter.api.AssertionUtils.fail(AssertionUtils.java:55)

at org.junit.jupiter.api.AssertionUtils.failNotEqual(AssertionUtils.java:62)

at org.junit.jupiter.api.AssertEquals.assertEquals(AssertEquals.java:150)

at org.junit.jupiter.api.AssertEquals.assertEquals(AssertEquals.java:145)

at org.junit.jupiter.api.Assertions.assertEquals(Assertions.java:510)

at br.com.fiap.JulgamentoPrisioneiroTeste.JulgamentoPrisioneiroTeste(JulgamentoPrisioneiroTeste.java:22)

at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)

at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)

at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)

at java.lang.reflect.Method.invoke(Method.java:498)

at org.junit.platform.commons.util.ReflectionUtils.invokeMethod(ReflectionUtils.java:686)

at org.junit.jupiter.engine.execution.MethodInvocation.proceed(MethodInvocation.java:60)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain$ValidatingInvocation.proceed(InvocationInterceptorChain.java:131)

at org.junit.jupiter.engine.extension.TimeoutExtension.intercept(TimeoutExtension.java:149)

at org.junit.jupiter.engine.extension.TimeoutExtension.interceptTestableMethod(TimeoutExtension.java:140)

at org.junit.jupiter.engine.extension.TimeoutExtension.interceptTestMethod(TimeoutExtension.java:84)

at org.junit.jupiter.engine.execution.ExecutableInvoker$ReflectiveInterceptorCall.lambda$ofVoidMethod$0(ExecutableInvoker.java:115)

at org.junit.jupiter.engine.execution.ExecutableInvoker.lambda$invoke$0(ExecutableInvoker.java:105)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain$InterceptedInvocation.proceed(InvocationInterceptorChain.java:106)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain.proceed(InvocationInterceptorChain.java:64)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain.chainAndInvoke(InvocationInterceptorChain.java:45)

at org.junit.jupiter.engine.execution.InvocationInterceptorChain.invoke(InvocationInterceptorChain.java:37)

at org.junit.jupiter.engine.execution.ExecutableInvoker.invoke(ExecutableInvoker.java:104)

at org.junit.jupiter.engine.execution.ExecutableInvoker.invoke(ExecutableInvoker.java:98)

at org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.lambda$invokeTestMethod$6(TestMethodTestDescriptor.java:205)

at org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCollector.java:73)

at org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.invokeTestMethod(TestMethodTestDescriptor.java:201)

at org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTestDescriptor.java:137)

at org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTestDescriptor.java:71)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$5(NodeTestTask.java:135)

at org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCollector.java:73)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$7(NodeTestTask.java:125)

at org.junit.platform.engine.support.hierarchical.Node.around(Node.java:135)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$8(NodeTestTask.java:123)

at org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCollector.java:73)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.executeRecursively(NodeTestTask.java:122)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.execute(NodeTestTask.java:80)

at java.util.ArrayList.forEach(ArrayList.java:1257)

at org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorService.invokeAll(SameThreadHierarchicalTestExecutorService.java:38)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$5(NodeTestTask.java:139)

at org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCollector.java:73)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$7(NodeTestTask.java:125)

at org.junit.platform.engine.support.hierarchical.Node.around(Node.java:135)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$8(NodeTestTask.java:123)

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at org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCollector.java:73)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.executeRecursively(NodeTestTask.java:122)

at org.junit.platform.engine.support.hierarchical.NodeTestTask.execute(NodeTestTask.java:80)

at org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorService.submit(SameThreadHierarchicalTestExecutorService.java:32)

at org.junit.platform.engine.support.hierarchical.HierarchicalTestExecutor.execute(HierarchicalTestExecutor.java:57)

at org.junit.platform.engine.support.hierarchical.HierarchicalTestEngine.execute(HierarchicalTestEngine.java:51)

at org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:248)

at org.junit.platform.launcher.core.DefaultLauncher.lambda$execute$5(DefaultLauncher.java:211)

at org.junit.platform.launcher.core.DefaultLauncher.withInterceptedStreams(DefaultLauncher.java:226)

at org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:199)

at org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:141)

at org.eclipse.jdt.internal.junit5.runner.JUnit5TestReference.run(JUnit5TestReference.java:98)

at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:41)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:542)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:770)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:464)

at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:210)

* **CORRIGINDO VALORES DE ACORDO COM ALGORITMO**
* **JAVA**

package br.com.fiap;

public class JulgamentoPrisioneiro {

private int PENA\_INOCENCIA = 0;

private int PENA\_CONDENACAO\_MUTUA = 5;

private int PENA\_CONDENACAO\_INDIVIDUAL = 10;

private int PENA\_CONDENACAO\_CUMPLICES = 1;

public int calculaPena(Resposta respostaPrisioneiroA, Resposta respostaPrisioneiroB) {

if (respostaPrisioneiroA == Resposta.CULPADO) {

if (respostaPrisioneiroB == Resposta.CULPADO) {

return PENA\_CONDENACAO\_MUTUA;

} else {

return PENA\_INOCENCIA;

}

} else {

if (respostaPrisioneiroB == Resposta.CULPADO) {

return PENA\_CONDENACAO\_INDIVIDUAL;

} else {

return PENA\_CONDENACAO\_CUMPLICES;

}

}

}

}