**第46届世界技能大赛移动应用开发项目中国集训队**

**集训日志（选手） 朱姚飞**

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| **日期** | **10-12** | **指导老师** | **叶重涵** |
| **训练任务** | **Kotlin 范型协变** | | | |
| **训练内容：**  Kotlin 协变 out in  <Out String> 等价 <T extends String> out 输出  <In String> 等价 <T super String> in 输入  委托 By  **训练要求：**  **过程记录：**  interface Source<out T> {  fun nextT(): T } fun demo(strs: Source<String>) {  val objects: Source<Any> = strs }  interface FI {  val acc: Int  fun helloWorld(): Unit } class F : FI {  override val acc = 0;  override fun helloWorld(): Unit {  System.out.println("HelloWorld${acc}")  } } class O(val f: F) : FI by f{  override val acc: Int =2 }  interface Base {  fun print() }  class BaseImpl(val x: Int) : Base {  override fun print() { print(x) } }  class Derived(b: Base) : Base by b fun main(args: Array<String>) {  println("Hello World!")  val o = O(F())  val s by lazy {  System.out.println("123")  "345"  }  System.out.println(s)  System.out.println(s)  o.helloWorld()  o.helloWorld()  o.helloWorld()  val b = BaseImpl(10)  Derived(b).print() }  **分析总结：**  Kotlin In,Out,By 等关键字等使用 | | | | |
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**填写人：朱姚飞**