## join练习 - Java多线程编程 - 飞扬学院

## Java多线程编程

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```
小明设计了一个多线程程序,希望创建3个线程,每个线程先打印
Hello, xxx!
然后等待1秒,再打印:
Goodbye, xxx!
class HelloThread extends Thread {
   String name;
   public HelloThread(String name) {
       this.name = name;
   @Override
   public void run() {
       System.out.println("Hello, " + name + "!");
       try {
           Thread.sleep(1000);
       } catch (InterruptedException e) {
       System.out.println("Goodbye, " + name + "!");
```

```
public class Main {
    public static void main(String[] args) throws Exception {
       List<Thread> threads = new ArrayList<>();
       for (String name : Arrays.asList("Bob", "Alice", "Tom")) {
           threads.add(new HelloThread(name));
       System.out.println("START");
       for (Thread t : threads) {
           t.start();
           t.join();
       System.out.println("END");
小明期望的输出是:
START
Hello, Bob!
Hello, Alice!
Hello, Tom!
(等待约1秒)
Goodbye, Bob!
Goodbye, Alice!
Goodbye, Tom!
END
但实际输出却是:
START
Hello, Bob!
(等待约1秒)
Goodbye, Bob!
Hello, Alice!
(等待约1秒)
Goodbye, Alice!
Hello, Tom!
(等待约1秒)
```

Goodbye, Tom!

END

请帮他找找问题原因,并修复。