

```
//Import ArrayList  
import java.util.ArrayList;  
  
//Create class which extends Thread  
  
public class threads extends Thread{  
  
    //Define infinilist  
    public static ArrayList<String> infinilist = new ArrayList<String>();  
  
    //main method  
    public static void main(String[] args){  
        //Create and start 3 threads  
        threads t1 = new threads();  
        threads t2 = new threads();  
        threads t3 = new threads();  
        t1.start();  
        t2.start();  
        t3.start();  
    }  
  
    //run method  
    //synchronized to adhere to rule 5 of brief  
    public synchronized void run(){  
        //infinite while loop  
        int x = 0;  
        while(x==0){  
            //If list is empty, add "This"  
            if(infinilist.isEmpty()){  
                infinilist.add("This");  
            }  
        }  
    }  
}
```

```

infinilist.add("This");

//If last element is "This, add "is"

}else if(infinilist.get(infinilist.size()-1) == "This"){

    infinilist.add("is");

    //If last element is "is", add "infinite"

}else if(infinilist.get(infinilist.size()-1) == "is"){

    infinilist.add("infinite");

    //else add "This"

}else{

    infinilist.add("This");

}

//print list

for(String s:infinilist){

    System.out.print(" "+s);

}

}

```

