题目:设计一个类,然后只能生成该类的一个实例

```
public class Test02{
   public static class Singleton{
   private final static Singleton INSTANCE = new Singleton();
   private Singleton(){
  }
  public static Singleton getInstance(){
   return INSTANCE;
   }
    }
    public static class Singleton2{
    private static Singleton2 INSTANCE = null;
    private Singleton2(){}
    public static Singleton2 getInstance()
    {
  if (INSTANCE == null){
   INSTANCE = new Singleton2();
   }
  return INSTANCE;
   }
    public static class Singleton3{
    private static Singleton3 INSTANCE = null;
   private Singleton3(){
    public static synchronized Singleton3 getInstance(){
   if(instance == null){
    instance = new Singleton3();
```

```
return instance;
}
}
public static class Singleton4{
private static Singleton4 instance = null;
static{
instance = new Singleton4();
}
private Singleton4(){
public static Singleton4 getInstance(){
return instance;
/*使用静态内部类*/
public static class Singleton5{
private final static class SingletonHolder{
private static final Singleton5 INSTANCE = new Singleton5();
private Singleton5{}
public static Singleton5 getInstance(){
return SingletonHolder.INSTANCE;
}
/*静态内部类,采用双重校验锁,线程安全,两个if循环保证在多线程条件下
public static class Singleton6{
private Singleton6(){ }
private volatile static Singleton6 instance = null;
public static Singleton6 getInstance(){
if(instance == null){
synchronized(Singleton6.class)
```

```
69  if(instance == null){
70  instance = new Singleton6();
71  }
72  }
73  }
74  return instance;
75  }
76  }
77  }
```