```java
public class MyTest1 {

    public static void main(String[] args) {
        int size = 1024 * 1024;
        byte[] myAlloc1 = new byte[2 * size];
        byte[] myAlloc2 = new byte[2 * size];
        byte[] myAlloc3 = new byte[3 * size];
        //byte[] myAlloc4 = new byte[2 * size];

        System.out.println("hello world");
    }
}
```

- 运行时JVM参数

-verbose:gc //报告每个垃圾收集事件，输出虚拟机中垃圾回收的详细日志
-Xms20M   //初始化堆空间大小
-Xmx20M   //最大堆空间大小，-Xms和-Xmx设置成一样可以避免垃圾回收造成的抖动问题
-Xmn10M   //新生代内存大小
-XX:+PrintGCDetails //打印GC回收详细日志
-XX:SurvivorRatio=8 //新生代中Eden和Survivior的比例默认为8那么 Eden(对象发源地):Form Survivor:To Survivor = 8:1:1

[GC (Allocation Failure) [PSYoungGen: 6443K->824K(9216K)] 6443K->4928K(19456K), 0.0026712 secs] [Times: user=0.00 sys=0.00, real=0.00 secs]
hello world
Heap
 PSYoungGen   total 9216K, used 4133K [0x00000000ff600000, 0x0000000100000000, 0x0000000100000000)
  eden space 8192K, 40% used [0x00000000ff600000,0x00000000ff93b718,0x00000000ffe00000)
  from space 1024K, 80% used [0x00000000ffe00000,0x00000000ffece010,0x00000000fff00000)
  to   space 1024K, 0% used [0x00000000fff00000,0x00000000fff00000,0x0000000100000000)
 ParOldGen   total 10240K, used 4104K [0x00000000fec00000, 0x00000000ff600000, 0x00000000ff600000)
  object space 10240K, 40% used [0x00000000fec00000,0x00000000ff002020,0x00000000ff600000)
 Metaspace   used 3499K, capacity 4498K, committed 4864K, reserved 1056768K
  class space   used 387K, capacity 390K, committed 512K, reserved 1048576K