```
-verbose:GC
-XX:+PrintGCDetails
-XX:+PrintGCDateStamps
-Xmx200M
-Xmn50M
-XX:MaxTenuringThreshold=3
-XX:TargetSurvivorRatio=60
-XX:+PrintTenuringDistribution
-XX:+UseConcMarkSweepGC CMS
-XX:+UseParNewGC
package main.java.Test1;
public class GC4 {
  public static void main(String[] args) throws InterruptedException {
    byte[] byte 1=new byte[512*1024];
    byte[] byte 2=new byte[512*1024];
    myGC();
    Thread.sleep(1000);
    System.out.println("1111111");
    myGC();
    Thread.sleep(1000);
    System.out.println("2222222");
    myGC();
    Thread.sleep(1000);
    System.out.println("3333333");
    myGC();
    Thread.sleep(1000);
    System.out.println("4444444");
    byte[] byte 3=new byte[1024*1024];
    byte[] byte 4=new byte[1024*1024];
    byte[] byte 5=new byte[1024*1024];
    myGC();
    Thread.sleep(1000);
    System.out.println("5555555");
    myGC();
    Thread.sleep(1000);
    System.out.println("6666666");
```

```
}
  private static void myGC(){
    for(int i=0; i<40; i++){
       byte[] byteArr=new byte[1024*1024];
    }
  }
}
2020-02-07T17:19:24.895+0800: [GC (Allocation Failure) 2020-02-
07T17:19:24.897+0800: [ParNew
Desired survivor size 3145728 bytes, new threshold 3 (max 3)
                           1749144 total
- age 1: 1749144 bytes,
: 40448K->1733K(46080K), 0.0020908 secs] 40448K->1733K(189440K), 0.0042659
secs] [Times: user=0.00 sys=0.00, real=0.00 secs]
1111111
2020-02-07T17:19:25.910+0800: [GC (Allocation Failure) 2020-02-
07T17:19:25.910+0800: [ParNew
Desired survivor size 3145728 bytes, new threshold 3 (max 3)
                           341824 total
- age 1:
           341824 bytes,
                           2083696 total
- age 2:
          1741872 bytes,
: 42480K->2358K(46080K), 0.0014345 secs] 42480K->2358K(189440K), 0.0015095
secs] [Times: user=0.01 sys=0.00, real=0.00 secs]
222222
2020-02-07T17:19:26.922+0800: [GC (Allocation Failure) 2020-02-
07T17:19:26.922+0800: [ParNew
Desired survivor size 3145728 bytes, new threshold 3 (max 3)
             56 bytes,
                           56 total
- age 1:
- age 2:
           341248 bytes,
                           341304 total
- age 3: 1740848 bytes,
                           2082152 total
: 42869K->2395K(46080K), 0.0013224 secs] 42869K->2395K(189440K), 0.0013886
secs] [Times: user=0.00 sys=0.00, real=0.00 secs]
3333333
2020-02-07T17:19:27.928+0800: [GC (Allocation Failure) 2020-02-
07T17:19:27.929+0800: [ParNew
Desired survivor size 3145728 bytes, new threshold 3 (max 3)
                           56 total
- age 1:
             56 bytes,
             56 bytes,
- age 2:
                           112 total
           341248 bytes,
- age 3:
                           341360 total
: 43114K->934K(46080K), 0.0040880 secs] 43114K->2646K(189440K), 0.0041804
secs] [Times: user=0.00 sys=0.00, real=0.01 secs]
```

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

444444

2020-02-07T17:19:28.984+0800: [GC (Allocation Failure) 2020-02-

07T17:19:28.984+0800: [ParNew

Desired survivor size 3145728 bytes, new threshold 1 (max 3)

- age 1: 3145832 bytes, 3145832 total

- age 2: 56 bytes, 3145888 total

- age 3: 56 bytes, 3145944 total

: 41660K->3151K(46080K), 0.0054767 secs] 43373K->5222K(189440K), 0.0055638

secs] [Times: user=0.02 sys=0.00, real=0.01 secs]

555555

2020-02-07T17:19:29.994+0800: [GC (Allocation Failure) 2020-02-

07T17:19:29.994+0800: [ParNew

Desired survivor size 3145728 bytes, new threshold 3 (max 3)

- age 1: 56 bytes, 56 total

: 43882K->39K(46080K), 0.0024342 secs] 45953K->5182K(189440K), 0.0024831

secs] [Times: user=0.00 sys=0.00, real=0.00 secs]

6666666

hello world

Heap

par new generation total 46080K, used 18040K [0x00000000f3800000, 0x00000000f6a00000, 0x0000000f6a00000)

eden space 40960K, 43% used [0x00000000f3800000, 0x00000000f4994550, 0x00000000f6000000)

from space 5120K, 0% used [0x0000000f6000000, 0x00000000f6009e70, 0x00000000f6500000)

to space 5120K, 0% used [0x00000000f6500000, 0x00000000f6500000, 0x00000000f6a00000)

concurrent mark-sweep generation total 143360K, used 5143K [0x0000000f6a00000, 0x00000000ff600000, 0x000000010000000)

Metaspace used 3998K, capacity 4568K, committed 4864K, reserved 1056768K class space used 447K, capacity 460K, committed 512K, reserved 1048576K

Process finished with exit code 0