

128MB

```
1 java -XX:+UseG1GC -Xms128m -Xmx128m -XX:+PrintGC week_02.housework1.GCLogAnalysis
```

Cause	Count	Avg Time	Max Time	Total Time
G1 Evacuation Pause	15	2.29 ms	6.89 ms	34.4 ms
Full GC - Allocation Failure	9	2.81 ms	8.79 ms	25.2 ms
G1 Humongous Allocation	14	0.737 ms	2.42 ms	10.3 ms
Evacuation Failure	12	0.612 ms	1.09 ms	7.34 ms

内存溢出 : Java heap space: failed reallocation of scalar replaced objects

256MB

```
1 java -XX:+UseG1GC -Xms256m -Xmx256m -XX:+PrintGCDetails week_02.housework1.GCLogAnalysis
```

Cause	Count	Avg Time	Max Time	Total Time
Full GC - Allocation Failure	16	8.74 ms	19.2 ms	140 ms
G1 Evacuation Pause	24	3.01 ms	9.17 ms	72.2 ms
Evacuation Failure	36	0.955 ms	9.17 ms	34.4 ms
G1 Humongous Allocation	32	0.757 ms	2.89 ms	24.2 ms

内存溢出 : Java heap space: failed reallocation of scalar replaced objects

512MB

```
1 java -XX:+UseG1GC -Xms512m -Xmx512m -XX:+PrintGCDetails week_02.housework1.GCLogAnalysis
```

Cause	Count	Avg Time	Max Time	Total Time
G1 Evacuation Pause	57	4.58 ms	19.1 ms	261 ms
Full GC - Allocation Failure	1	57.9 ms	57.9 ms	57.9 ms
G1 Humongous Allocation	27	1.13 ms	4.78 ms	30.5 ms
Evacuation Failure	7	4.18 ms	17.0 ms	29.2 ms

1024MB

Cause	Count	Avg Time	Max Time	Total Time
G1 Evacuation Pause	15	12.0 ms	53.9 ms	180 ms
Evacuation Failure	2	8.00 ms	9.94 ms	16.0 ms
G1 Humongous Allocation	4	3.06 ms	8.01 ms	12.2 ms

总结