

```
1 -----VerboseGCDemo.java-----
2 package com.ameya.test;
3
4 import java.util.HashMap;
5 import java.util.Map;
6 /*
7  -Xms1024m
8  -Xmx1024m
9  -verbose:gc
10 -XX:+UseSerialGC
11 -Xloggc:c:/work/sapient/dumps/gcdump.log
12 -XX:+PrintGCDetails
13 -Xlog:gc*::time
14 */
15 public class VerboseGCDemo {
16
17     private static Map<String, String> stringContainer=new
        HashMap<String, String>();
18     public static void main(String[] args) {
19         System.out.println("Start Of The Program");
20         String stringWithPrefix="stringWithPrefix";
21         //Load Java heap with 3 M java.lang.String instances
22         for(int i=0;i<3000000;i++) {
23             String newString=stringWithPrefix + i;
24             stringContainer.put(newString, newString);
25         }
26         System.out.println("Map size : "+stringContainer.size());
27         //Explicit GC
28         System.gc();
29         //Remove 2 M from 3 M
30         for(int i=0;i<2000000;i++) {
31             String newString=stringWithPrefix + i;
32             stringContainer.put(newString, newString);
33         }
34         System.out.println("Map size : "+stringContainer.size());
35         System.out.println("End Of Program");
36     }
37
38 }
39
```