```java
1  /*
2      Memory:
3  */
4  package simple_computer_simulation;
5
6
7  /**
8   *
9   * @author bhitt
10  */
11 public class Memory {
12     //Properties
13     private Integer [] values;
14
15     //Default Constructor
16     Memory(){
17     //1024 word size register
18         values = new Integer[1024];
19         for(int i=0;i<1024;i++){
20             values[i]=0;
21         }
22     }
23
24     //Mutator
25     void set(Integer address, Integer value){
26         values[address] = value;
27     }
28
29     //Accessor
30     Integer get(Integer address){
31         return values[address];
32     }
33
34
```

```java
35      //Memory Dump
36      void memoryDump(){
37          for(int i=0;i<1024;i++){
38              if(values[i] != 0){
39                  System.out.println("Memory Dump
Address:"+i+" | Content:"+values[i]);
40              }
41          }
42      }
43 }
44
```