

```
package  
com.company;
```

```
public class Main {  
  
    public static final int CONST = 50;  
    public static final int SIZE_ARRAY = 100000000;  
  
    public static int[] generateArray(int size ) {  
        int[] array = new int[size];  
        for (int i = 0; i < array.length; i++) {  
            array[i] = 128;  
        }  
        return array;  
    }  
  
    public static void main(String[] args) {  
        int[] array = generateArray(SIZE_ARRAY);  
        int temp;  
        long startTime;  
        long endTime;  
        long checkTime=0;  
        long check = 0;  
        for (int i = 0; i < array.length; i++) {  
            startTime = System.currentTimeMillis();  
            temp = array[i];  
            temp+=CONST;  
            array[i]=temp;  
            endTime = System.currentTimeMillis();  
            long timeSpent = endTime - startTime;  
            if(checkTime<timeSpent) {  
                check++;  
            }  
            checkTime=timeSpent;  
        }  
        double cacheLength = ((double)array.length/check)*32;  
        System.out.println(cacheLength/(1024*8)+" KB");  
    }  
}
```

