



- each element of array A is an integer within the range [1..1,000,000,000];
  - all but one of the values in A occur an even number of times.
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```
9  class Solution {
10     public static Map<Integer, Integer> m = new Hashtable<In
11
12         private static Integer r;
13
14     public static int solution(int[] a) {
15         if (a.length == 1)
16             return a[0];
17
18         for (int i = 0; i < a.length; i++) {
19             Integer v = m.putIfAbsent(a[i], 1
20             if (v != null) {
21                 m.put(a[i], v + 1);
22             }
23         }
24
25         m.forEach((k, v) -> {
26             if (v.intValue() % 2 != 0)
27                 r = k;
28         });
29
30         return r;
31     }
32 }
```

Analysis summary

The solution obtained perfect score.

Analysis ?

Detected time complexity:

O(N) or

O(N\*log(N))

expand all	Example tests	
▶	example1 example test	✓ OK
expand all	Correctness tests	
▶	simple1 simple test n=5	✓ OK
▶	simple2 simple test n=11	✓ OK
▶	extreme_single_item [42]	✓ OK
▶	small1 small random test n=201	✓ OK
▶	small2 small random test n=601	✓ OK
expand all	Performance tests	
▶	medium1 medium random test n=2,001	✓ OK
▶	medium2 medium random test n=100,003	✓ OK
▶	big1 big random test n=999,999, multiple repetitions	✓ OK
▶	big2 big random test n=999,999	✓ OK

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