HashSet版：

public class Solution {

public int missingNumber(int[] nums) {

if (nums.length == 0) return 0;

else {

HashSet<Integer> h = new HashSet();

int r = 0;

for(int i = 0; i <= nums.length;i++) h.add(i);

for(int j = 0; j < nums.length;j++) {

if (h.contains(nums[j]))

h.remove(nums[j]) ;

}

Iterator i = h.iterator();

r = (int)i.next();

return r;

}

}

}

改进异或运算版

public class Solution {

public int missingNumber(int[] nums) {

if (nums.length == 0) return 0;

else {

int [] a = new int[2\*nums.length+1];

int r = 0;

for (int i = 0; i < nums.length;i++) a[i] = nums[i];

for (int j = nums.length; j < 2\*nums.length+1;j++) a[j] = (j-nums.length);

for (int k =0; k < 2\*nums.length+1;k++) r = r^a[k];

return r;

}

}

}

牛逼版本

**public** **int** missingNumber(**int**[] nums) {

**int** result = 0;

**for**(**int** i=0; i<nums.length; i++){

result = result + i+1 - nums[i];

}

**return** result;

}