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1. **Reverse String:**

Solution:

```
class Solution {
  public:
    int reverseDigits(int n) {

        int rev = 0;

        while (n > 0){
            int digit = n % 10;
            rev = rev * 10 + digit;
            n = n/10;
        }
        return rev;
    }
};
```

2. **Search Insert position:**

Solution:

```
class Solution {
public:
    int searchInsert(vector<int>& nums, int target) {
        int low = 0 ;
        int high = nums.size() - 1 ;

        while (low <= high){
            int mid = (low + high)/2 ;

            if (nums[mid] == target){
                return mid;
            }
            else if (nums[mid] < target){
                low = mid + 1;
            }
            else{
                high = mid - 1 ;
```

```
            }
        }
        return low;
    }
};
```

3. **Single Number**

Solution:

```
class Solution {
public:
    int singleNumber(vector<int>& nums) {
        int result = 0;

        for ( int num : nums){
            result = result ^ num ;
        }
        return result ;
    }
};
```

4. **Missing Number**

Solution:

```
class Solution {
public:
    int missingNumber(vector<int>& nums) {
        int n = nums.size();
        int result = 0 ;

        for(int num : nums){
            result = result ^ num;
        }

        for(int i=0 ; i<=n ; ++i){
            result = result ^ i;
        }

        return result;

    }
};
```