**Single Element in a Sorted Array**

int singleNonDuplicate(vector<int>& arr)

{ int n = arr.size();

int low = 0;

int high = n - 1;

while (low < high) {

int mid = low + (high - low) / 2;

if (mid % 2 != 0) {

mid--;

}

if (arr[mid] != arr[mid + 1]) {

high = mid;

} else {

low = mid + 2; }

}

return arr[low];

}