**Solved**

1. Peak Index in a Mountain Array (852):

Solution: public int peakIndexInMountainArray(int[] A) {

if (A == null)

return -1;

int idx = 1, result = 0;

boolean flag = false;

while (idx < A.length - 1) {

if (flag == false && A[idx] > A[idx - 1] && A[idx] > A[idx + 1]) {

flag = true;

result = idx;

}

else if (flag == true && A[result] <= A[idx])

return -1;

idx++;

}

return result;

}