def searchInsert(self, A, B):

if B<A[0]:

return 0

if B>A[len(A)-1]:

return len(A)

mid=0

p=0

q=len(A)-1

while p<=q:

mid=(p+q)//2

if A[mid]==B:

return mid

elif A[mid]>B:

if A[mid-1]<B:

return mid

q=mid-1

elif A[mid]<B:

if A[mid+1]>B:

return mid+1

p=mid+1

return p