def findMin(A: [int]):

    n=len(A)

    s=0

    e=n-1

    mini=float('inf')

    while(s<=e):

        mid=(s+e)//2

        if A[s]<=A[mid]:

            if A[s]<mini:

                mini=A[s]

            s=mid+1#Search space the other half

        elif A[e]>A[mid]:

            if A[mid]<mini:

                mini=A[mid]

            e=mid-1

#As in found the minimum side in the sorted side now check the other side

    return mini