Data Structure and Algorithms

(HackerEarth solved Quiz) 2022

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Q1)Monk and Nice Strings

n=int(input())

s=[]

for i in range(n):

s.append(input())

count=0

for j in range(i):

if s[j]<s[i]:

count+=1

print(count)

Q2)Monk and Suffix Sort

s,n=map(str,input().split())

n=int(n)

arr=[]

for i in range(len(s)):

arr.append(s)

s=s[1:]

arr.sort()

print(arr[n-1])

Q3)Monk and Rotation

t=int(input())

while t!=0:

n,k=list(map(int,input().split()))

arr=list(map(int,input().split()))

index=n-(k%n)

for i in range(index,n):

print (arr[i], end=' '),

for i in range(index):

print (arr[i], end=' '),

t-=1

Q4)Cyclic shift

t=int(input())

while t!=0:

n,k=map(int,input().split())

s=int(input())

p = -1

max= ""

for i in range(n):

if max < s[i]:

max=s[i]

d = i

elif max == s[i]:

p=i-d

break

s=s[1:]+s[:1]

if p==-1:

print(d+(k-1)\*n)

else:

print(d+(k-1)\*p)

print("")

t-=1

Q5)Minimum AND xor OR

t=int(input())

while t!=0:

n=int(input())

arr=list(map(int,input().split(' ')))

arr.sort()

min=arr[0]^arr[1]

for i in range(1,n-1):

temp=arr[i]^arr[i+1]

if temp< min:

min=temp

print(min)

print("")

t-=1