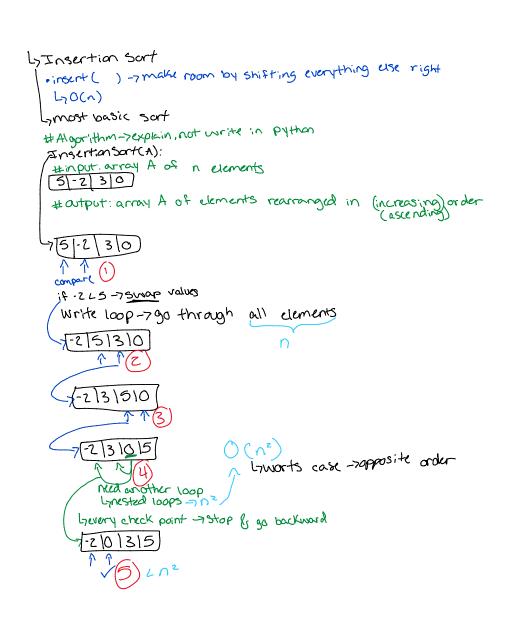
Exam:

Lyattempt all exercises Lyingertian sort
by Hu Lybinary search
by lictures
by how to sort data set list -> by inary search
by give algorithm for sinding max value
by evaluate complexity

Lybased on n

Sorted (data) -7 timeort 170 (n log n) -7 best complexity for sorting algorithm

How to sort data set on your own Lysorted-yeasier to find min, max, binary search



```
def insertion_sort (A):

for i in range (1,1en (A)):

for j in range (i,0,-1):

if A[j] L A[j-1]:

temp = A[j-1] # to swap 2 variables, need 3td temp variable

A[j-1] = A[j]

A[j] = temp

return A
```

Insertion_sort([2,-2,3,-3,4,-4])

Actual Matrix

matrix 2 = C[0] *3 for j in range (2)matrix C(3) = 3 $\sqrt{-2} [C0,0,0], (0,0,3]$