Week 4

Ano! Algorithm

- 1. Find the middle under of the array middle = 1+ (last - first) /2
- 2. Divide the array from the middle.
- 3. Call merge sort for the first half the array. merge sort Carray, first, middle
- 4. Call mergesort for the second hay of the array. mergesort (array, middle + 1, last)
- 5. Muge the two sorted halves into a single sorted array.

- 1. Choose the highest under value has privat.
 - 2. Take two variables to point left & right of the list excluding
 - 3. Left points to the Low redex.
 - 4. Right points to the high
 - 5. While value at left is less other the proof more right 6. While value at right is greater than prival more left.

 - 7. 2f both step 5 & step6 dæs not match swap ligt & right.
 - 8. of life 7 sight, the point where the new prot.

Ans Sycuthin

1. Find the middle under of the array.

2. middle = 1+ (last first)/2

3. Divide the array from the middle.

4. Call merge sort for the first hay of the array.

Merge soit larray, middle +1, last)

Merge the two souted halves who a single sorted array.

7. Return the element at wider 1<-1 in the sorted array