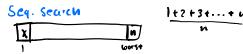
Section 2.5

* (to back to finish chapter 7. Skip Fib section for now # Finish nomework #2
* Test 01 on 09/16/2020 Deverything through hw 2.

· Empirical analysis

· Analyze Best + worst cuse easier than average



"lets us take en implementation and benchmark it.

Lo Grenerate range of differing inputs. Size, complexity, order... etc...

Ly Performance on real hardware.

L) Collect data on memory use + on exec. time] gather metrics

·Perturbation: perturbing (altering) what you are observing.

· Stable?

La Bubble sort yes La Selection Sort no

Chapter 3: Brute force techniques ex. sequential search.

· Exhaustive search -> have to look at every value. Special category of brute force.

Schection Sort

89 45 68 90 29 34 17

17 45 68 90 29 45 87

17 34 68 90 29 45 87

Find min and Move to Front.

Still [n-1]+(n-2)... ncn-1)

Election will be faster because
there are not as Many Swaps.

Only need atemp, so it is in-place.

Lo Both are in-place

o Searching

Sequential Search		
worst case	W	comparisons

3.3/3.4 preview.

3.3-> Closest pair

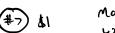
3.4: Exnaustive Search

- Combinatorial problems
- Often looking for optimal solution.

Knapsack









Maro walve wil weight

Exhapstive Search

