BUBBLE SORT &

If push fre max to the last

Il compare adjacent member swap 16

(left > ought)

Il the superat four size dus I than princeus

finst loop $\rightarrow 0 \Rightarrow (n-1)$

fau (v=n-1; v≥0; i--){

) as last clemnt ment have anyome after to compose with

fau (j=0; j<=i-j; j++) {

if (am []] > ares [j+17) & wap,

COMPLEXITY -> (n) + (n-1) + (n-2) + (n-3) -. + 1 o(n2) - woust

```
int temps a
   If (min Index = i) {
         "int temp = aver [minIndex];
         and [minIndex] = and [i];
         avoicij = temp;
                n, n-1, n-2, n-8, .... 2 -
inner loop →
eurs
               approx to sam of natural numbers
             = \frac{n(n+1)}{2} \Rightarrow \frac{n^3}{2} + \frac{n}{2}
                         worst awage
```

Il pick minimum (9) Il place at first position by swapping Il pick min - swap - with swand ondex

noid selectionScott (int over [7) { int min-Index = i', joung upto (n-2) for (int i=0; <u>u< size-1;</u> i++) { int minInden=i; (n-1) for (int j=i+1; j<&izi; j++){ if (avoilj] Kaous [min Inden]) { min Enden = j