```
1 - Bubble Sort
Wednesday, 20 April, 2022 1:30 PM
 Bubble Sort
     array = < 5,1,12, -5,16>
                   5 1 12 -5 16

7 7 7

corrent > next? / swap
                                  1 5 12 -5 16

Current > next ? X stay
                               1 5 12 -5 16

current > next? \ swap
                                                                                                              current > next ? X stay
                                                                                                                                          16
                                              5 -5 12 16

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curent > next? \suap
                                                                                     current > next? × stay
                                                                                                                                                                            14
                                                                                                                                    12
                                     ement > next? \ swap
                                                                                                                                                                                  16
                                                                     current > next? x stay
                                                                                                                                                                                                                                          1=1
                                            current > next ? × stay
      Pseudocode
                                        bubble Sort (intil arr) {
                  Void
                                              for (int i = arr.length-1; i > 0; i--) { ]--- (n)
                                                                            for (int j = 1; j \( i \); j \( 
                                                                                                                           artj]=artj-1];
                                                                                                                            arrlj-1]=temp;
        ž
                              time complexity = O(n) + O(n) * O(1)
                                                                                                                          0 (n2)
```