if (and arr. length == 0 || arr. length == 1)

sorted = true;

```
N=7 arr=[3,4,7,5,6,2,1] inti=0 //use to iterate
                                                                                                                                                                                      thru arr L->R
                                                                                       narr [it] 4 arr [i] false i++ 1=1
                                                                                       2: arr[it] Larr[i] false i++; i=2
                                                                                       3. arr[i+1] < arr[i] true
                                                                                            arr[i+1] < arr[i] true

10

arr[3] < arr[2] Swap (arr[3], arr[2], arr)

tmp= = arr[hi]
    3457,621
                                                                                                                      S arzaus 6 arrChil = arr[10]:
 1: arr[i+1] < arr[i] false => i++ 1/i=1
2: arr [it ] Larr [i] false => i++ 1/ i=2
3: arr[it] L arr[i] true swap*
                          arr[i] carr[i-1] false => i++ // i=3
 4: arr[i+1] \ arr[i] true swap*

source arr[i] \ Larr[i-1] fulse => i++ // i=4
5. arr[i+1] \( \text{arr[i]} \) true \( \text{swap} \tau \) \( \text{i=0} \) \( \frac{3}{4} \) \( \frac{5}{6} \) \( \frac{2}{1} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=2} \) \( \frac{3}{4} \) \( \frac{7}{5} \) \( \frac{6}{2} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=3} \) \( \frac{4}{1} \) \( \frac{5}{2} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=3} \) \( \frac{3}{4} \) \( \frac{7}{5} \) \( \frac{6}{2} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=3} \) \( \frac{3}{4} \) \( \frac{7}{5} \) \( \frac{6}{2} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=3} \) \( \frac{3}{4} \) \( \frac{7}{5} \) \( \frac{6}{2} \) \( \text{i=1} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=3} \) \( \frac{3}{4} \) \( \frac{7}{5} \) \( \frac{6}{2} \) \( \text{i=1} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=3} \) \( \frac{3}{4} \) \( \frac{7}{5} \) \( \frac{6}{2} \) \( \text{i=1} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=3} \) \( \frac{3}{4} \) \( \frac{7}{5} \) \( \frac{6}{2} \) \( \text{i=1} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=3} \) \( \frac{3}{4} \) \( \frac{7}{5} \) \( \frac{6}{2} \) \( \text{i=1} \) \( \text{arr[i-1]} \) \( \text{true swap} \tau \) \( \text{i=3} \) \( \frac{3}{4} \) \( \frac{7}{5} \) \( \frac{6}{2} \) \( \text{i=1} \) \( \text{
                             arr[i] < arr[i-1] true swap # i=4 3 4 5 6 7 3 1
                           arr[i] L arr[i-1] true swap = i= 5 234567
                            arr[i] c arr[i-1] must deal will i=6 123456
```

Red - swap 75621 10 B4 i=1 347,5621 Blue-Backtracking swaps 1=2 34 \$ 5 6 2 | swap Green - i 3457621 no swaps 1=3 345 \$16, 21 swap 3456721 no swap 1=4 3456 1721 3456 3 345回6 7 343567 334567 123456 71 * Must deal w/ out of Bound Except. 23456 71 2345,6 1 2345116 2341156 231456 2 1 3 4 5 6 7 3456 7 * out of Bound Except