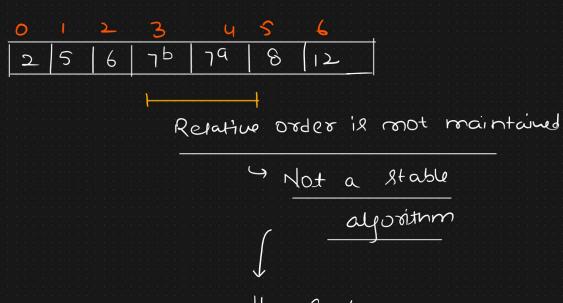


Ly Stable algorithm



HeapSort

```
Bubble Sout
          0 1 2 3 4 5
20, 50, 10, 100, 90
10 50 50 90 100
                                          apr/ > apr/ +1)
(i = 0)
J = 0 + 0 4
                                           Swap (avolz),
       <u>2</u> 3 4 5 20, 100, 100
                                              900(J+1)
        10 20
                                              \omega = e
ù = 1
       7 = 0 to 3
          0 1 2 3 4 S
10,20,40,50,90,100
 i = 2
     J = 0 to 2
          0 1 2 3 4 5
       swapped = false
                             Best cale
             6 break
                                       Scenario
  i=3, i=4, i=5
```

$$(n-1) + (n-2) + (n-3) + - - - - + 1$$

$$Sum of m advad mum = m(n+1)$$

$$\frac{1}{2}$$

$$(n-1) = (n-1)m$$

$$\Rightarrow$$
 \bigcirc (U_{τ})

