

Before		After	
x_0	61	61	
1	172	172	
2	83	74	
3	74	83	
4	99	99	
5	11	11	

t | 83

j | 2

$j = 2;$

$t = x[j];$

$x[j] = x[j+1];$

$x[j+1] = t;$

↑

This code swaps location 2 & 3

OR In general swaps j^{th} & $(j+1)^{\text{st}}$ loc

Does

$$x[j] = x[j+1]$$

$$x[j+1] = x[j]$$

work?

NO

x ₀	61
1	172
2	83
3	74
4	99
5	11

```

for (j=0; j < 6-1; j++)
{
    if (x[j] > x[j+1])
    {
        t = x[j];
        x[j] = x[j+1]; // swap
        x[j+1] = t;
    }
}

```

number of elements to sort



see slides folder

intro - arrays