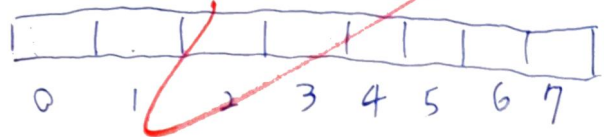


Student Name: 吳杰恩

### Clear indication of array bounds

 $[0, 7]$ 

Array name:  $A[0 \dots ?]$   $\downarrow$  bound

index	0	1	2	3	4	5	6	7
value	22	90	95	100	71	19	5	70

Value labels above or inside each cell

[22] [90] [95] [100] [71] [19] [5] [70]

Searching range: indices 0 to 7

Minimum element found: Value = <u>5</u> , Index = <u>6</u>
Swap performed: Index 0 <-> Index <u>6</u>
(Circle YES or NO): <u>YES</u> / NO
Array after step (with indices)
<div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>[ 5 ]</span><span>[ 90 ]</span><span>[ 95 ]</span><span>[ 100 ]</span><span>[ 71 ]</span><span>[ 19 ]</span><span>[ 22 ]</span><span>[ 70 ]</span> </div> <div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>0</span><span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span> </div>

Step2 (i = 1):

Array before step (with indices)
<div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>[ 5 ]</span><span>[ 90 ]</span><span>[ 95 ]</span><span>[ 100 ]</span><span>[ 71 ]</span><span>[ 19 ]</span><span>[ 22 ]</span><span>[ 70 ]</span> </div> <div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>0</span><span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span> </div>
Searching range: indices 1 to 7
Minimum element found: Value = <u>19</u> , Index = <u>5</u>
Swap performed: Index 1 <-> Index <u>5</u>
(Circle YES or NO): YES / <u>NO</u>
Array after step (with indices)
<div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>[ 5 ]</span><span>[ 19 ]</span><span>[ 95 ]</span><span>[ 100 ]</span><span>[ 71 ]</span><span>[ 90 ]</span><span>[ 22 ]</span><span>[ 70 ]</span> </div> <div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>0</span><span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span> </div>

Step3 (i = 2):

Array before step (with indices)
<div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>[ 5 ]</span><span>[ 19 ]</span><span>[ 95 ]</span><span>[ 100 ]</span><span>[ 71 ]</span><span>[ 90 ]</span><span>[ 22 ]</span><span>[ 70 ]</span> </div> <div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>0</span><span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span> </div>
Searching range: indices 2 to 7
Minimum element found: Value = <u>22</u> , Index = <u>6</u>
Swap performed: Index 2 <-> Index <u>6</u>
(Circle YES or NO): <u>YES</u> / NO
Array after step (with indices)
<div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>[ 5 ]</span><span>[ 19 ]</span><span>[ 22 ]</span><span>[ 100 ]</span><span>[ 71 ]</span><span>[ 90 ]</span><span>[ 95 ]</span><span>[ 70 ]</span> </div> <div style="display: flex; justify-content: space-between; padding: 0 10px;"> <span>0</span><span>1</span><span>2</span><span>3</span><span>4</span><span>5</span><span>6</span><span>7</span> </div>