Trace table for **Challenge 2: Selection Sort algorithm**

Visual to text coding – Lesson 9

BEGIN

**unsortedList** ← [11, 25, 12, 22, 64]

**sortedList** ← []

**noOfValues** ← length of **unsortedList**

Display "Here's the unsorted array: ", **unsortedList**

// Repeat the whole algorithm enough times to move every value.

For **i** from 0 to **noOfValues** - 1

// Identify the smallest value currently in the unsorted list.

**smallest** ← 100

For **j** from 0 to length of **unsortedList**

If **unsortedList**[**j**]< **smallest**

**smallest** ← **unsortedList**[**j**]

End If

End For

// Move the smallest value across to the sorted list.

Remove **smallest** from **unsortedList**

Append **smallest** to **sortedList**

// Display as we go.

Display "Here's the sorted array: ", **sortedList**

End For

END

| unsortedList | sortedList | i | j | smallest |
| --- | --- | --- | --- | --- |
| [11 25 12 22 64] |  |  |  |  |
|  | [ ] |  |  |  |
|  |  | 0 |  |  |
|  |  |  |  | 100 |
|  |  |  | 0 |  |
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