Merging two lists of cards - Solution

Task .

In this task, you need to show each step of how two lists of cards would merge into a new list. The instructions for carrying this out can be written as:

1. Take two lists of data to be merged.
2. Create a new empty list for the merged items.
3. Repeat steps a-b until one of the lists of items is empty:
   1. Compare the first items of the two lists.
   2. Remove the item that is lower and place it into the merged list, in the next available position.
4. Then place each item from the remaining list into the merged list in order.

Each step should show the cards remaining in list 1 and list 2 and which card has been added to the merged list. The first two steps have been completed for you.

| **List 1:** | | |  |  | **List 2:** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **Merged list:** | | | | | | | |
|  |  |  |  |  |  |  |  |

| **List 1:** | | |  |  | **List 2:** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **Merged list:** | | | | | | | |
|  |  |  |  |  |  |  |  |

| **List 1:** | | |  |  | **List 2:** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **Merged list:** | | | | | | | |
|  |  |  |  |  |  |  |  |

| **List 1:** | | |  |  | **List 2:** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **Merged list:** | | | | | | | |
|  |  |  |  |  |  |  |  |

| **List 1:** | | |  |  | **List 2:** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **Merged list:** | | | | | | | |
|  |  |  |  |  |  |  |  |

| **List 1:** | | |  |  | **List 2:** | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **Merged list:** | | | | | | | |
|  |  |  |  |  |  |  |  |

Explorer Task .

**Draw** the steps for adding another card, the 3 of spades, into the merged list above.