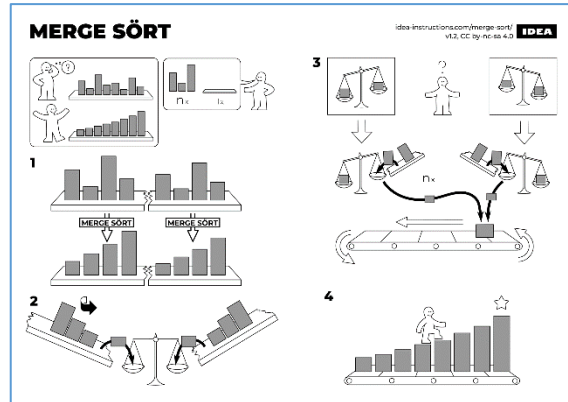


# Merge

- The merge method merges two sorted arrays into a third larger sorted array:  
<https://www.youtube.com/watch?v=AYc4yNWQDEw&feature=youtu.be>
- It is the last half of the Mergesort algorithm.
- Fill in the blanks to complete the code.



```

public class merge
{
    public static void main (String args[])
    {
        new merge ();
    }

    public merge ()
    {
        int a[] = {3, 5, 6, 7, 11, 12, 13, 14};
        int b[] = {1, 2, 4, 8, 9, 10};
        int c[] = new int [a.length + b.length];
        int aSpot = 0;
        int bSpot = 0;

        //from the start of the array to the length
        for (int i = ____ ; i < _____ ; i++)
        {
            //a is done, copy over b
            if (aspot >= a.length)
            {
                c [i] = b [bSpot];
                bSpot++;
            } //b is done, copy over a
            else if (_____ >= _____)
            {
                c [____] = ____ [_____];
            } //a is smaller, copy over a
            else if (a [aSpot] < b [bSpot])
            {
                c [____] = ____ [_____];
            } //b is smaller, copy over b
            else
            {
                c [____] = ____ [_____];
            }
        }
    }
}

```