

l = left index

r = right index

38

27

43

3

9

82

10

Is $l < r$

Yes

$m = l + (r - 1) / 2$

l = left index

r = right index

38

27

43

3

9

82

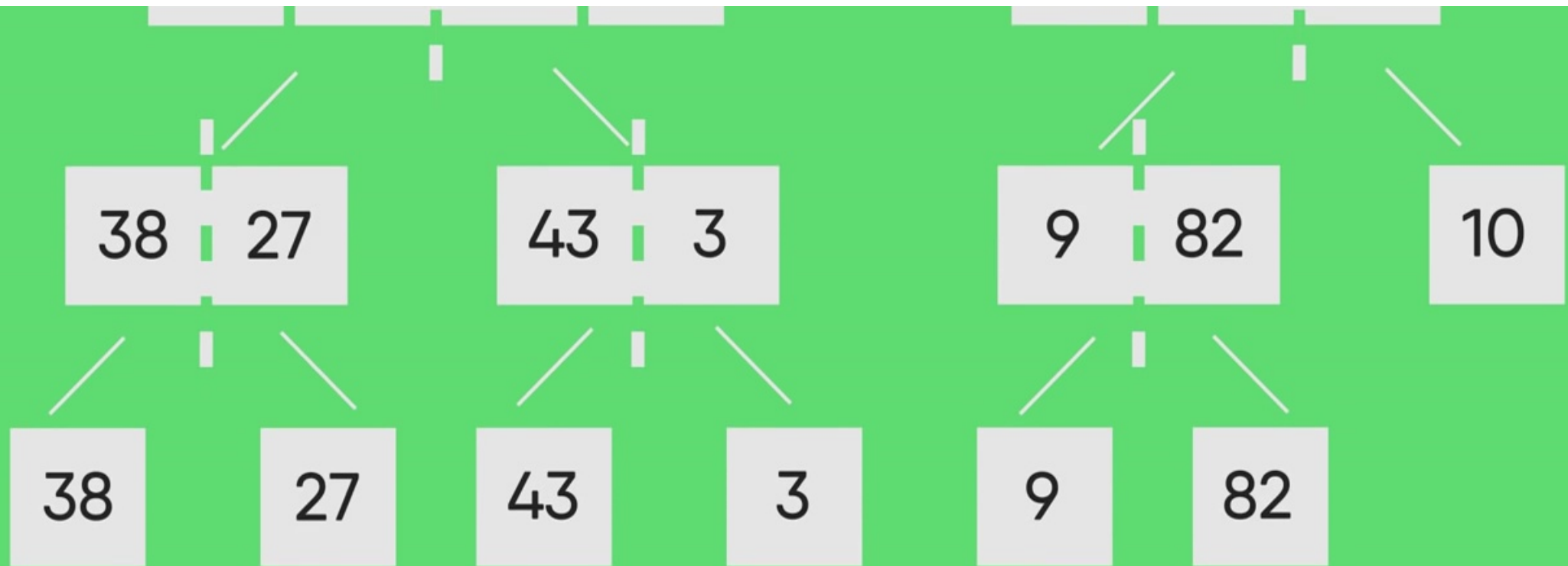
10

l = left index

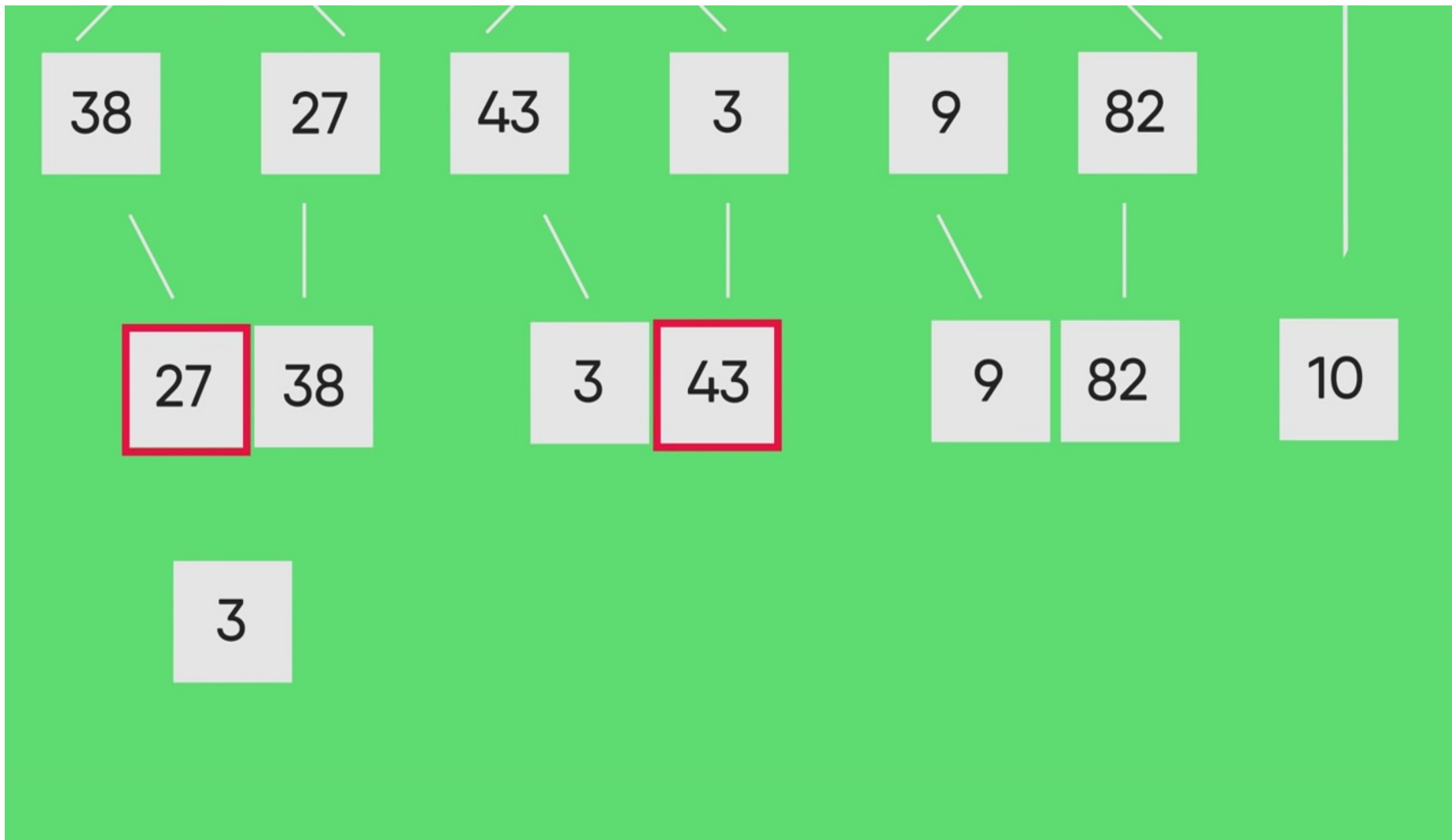
r = right index



l < r



After dividing the array into smallest units merging starts, based on comparison of elements.



27

38

3

43

9

82

10

3

27

38

43

9

10

82

3

9

10

27

38

43

82

These numbers indicate
the order in which
steps are processed

