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Exercise 1: Descending Bubble-sort

In this exercise, there are 3 parts of sorting 15 elements with Bubblesort method. And I use the random case for descending sort:

So total takes 1380ns.

Exercise 2: Ascending Quick-sort

In this exercise, there are 3 parts of sorting 15 elements with Quicksort method. And I use the random case for ascending sort:

So total takes 1432ns.

CONCLUSION: Quicksort not always have better runtime than Bubblesort, it depends on sorting array and sort trending.