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Exercise 1: Descending Bubble-sort

I use the random case for descending sort: Sorting takes 1212 ns. Total takes 1380ns.

With 105 loops.

Exercise 2: Ascending Quick-sort

I use the random case for ascending sort: Sorting takes 1314 ns Total takes 1432ns.

With 15 recursion calls.

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