

MEET COMB SORT

CHALLENGE DESCRIPTION:

Comb sort is a simplified sorting algorithm, an improvement of a bubble sort algorithm. It competes in speed with a well-known quick sort algorithm. The main idea of this sorting algorithm is that a gap between elements can be more than 1. Such algorithm is used in this challenge.

5	2	1	3	9	0	4	6	8	7
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INPUT SAMPLE:

The first argument is a path to a file. Every row includes a test case with numbers that you need to sort using comb sort algorithm.

3	1	2		
5	4	3	2	1

OUTPUT SAMPLE:

Count and print number of iterations it will take to sort the test case using comb sort. Iteration is a pass through the list of numbers using the same range between the compared elements. When a pass starts from the beginning – it’s a new iteration. If a range is, for example, 3, then take elements 0 and 3, then 1 and 4 etc.

2
3

CONSTRAINTS:

1. Decrease factor for the algorithm is 1.25; round the result to a smaller number.
2. If a range is, for example, 3, then take elements 0 and 3, then 1 and 4 etc.
3. One iteration for this algorithm is a pass through the list of numbers to the end using the same range between the compared elements.
4. The number of test cases is 40.