


Radix Sort:

29	83	471	36	91	8
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largest digit = 3

rn want sort
3 times

Sort the array, using count sort,
digit by digit, starting from least.

0 1 2 3 4 5
29, 83, 471, 36, 91, 8 → 10
~~100~~
→ (0-9)

471, 91, 83, 36, 08, 29 10

0 8, 0 2 9, 0 3 6, 4 7 1, 0 8 3, 0 9 1

8, 29, 36, 83, 91, 471

Answer

$$O(\text{digits} * (\underline{n} + \text{base}))$$
