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9. (2019)
  A possible solution is Radix sort, which works with
  positive integers
 To explain the algorithm consider the array
          53, 89, 150, 36, 633, 233
 Starting by sorting the number by the last digit
        150, 233, 633, 53, 36, 89
 Then sort by second to last digit
          633, 233, 36, 150, 53, 89
  Then sort by first digit (0 for 2 digit number)
         36, 53, 89, 150, 233, 633
 The array is then sorted.
Complexity
 Number of data: n
 Number of max digit: d
 Base of numbers: b
                           keys (0,1,...,9)
                       O(n+b) (counting sort)
Each sort step takes
                       O (din+b))
Thus for the whole algo.
                        > Less than Quick sort !
                           but b < n and b a 1
```

Limitations

- 1. Only for positive integer
- 2. Bad for small bases
- 3. Uses A LOT of memory (depends on d)