```
void countingSort(int array[], int size, int place) {
 int[] output = new int[size + 1];
 int max = array[0];
 for (int i = 1; i < size; i++) {
  if (array[i] > max)
    max = array[i];
 }
 int[] count = new int[max + 1];
 for (int i = 0; i < max; ++i)
  count[i] = 0;
 for (int i = 0; i < size; i++)
   count[(array[i] / place) % 10]++;
 for (int i = 1; i < 10; i++)
   count[i] += count[i - 1];
 for (int i = size - 1; i >= 0; i--) {
   output[count[(array[i] / place) % 10] - 1] = array[i];
  count[(array[i] / place) % 10]--;
 }
 for (int i = 0; i < size; i++)
   array[i] = output[i];
}
int getMax(int array[], int n) {
 int max = array[0];
 for (int i = 1; i < n; i++)
  if (array[i] > max)
    max = array[i];
 return max;
void radixSort(int array[], int size) {
 int max = getMax(array, size);
 for (int place = 1; max / place > 0; place *= 10)
  countingSort(array, size, place);
}
```

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