### Idea:

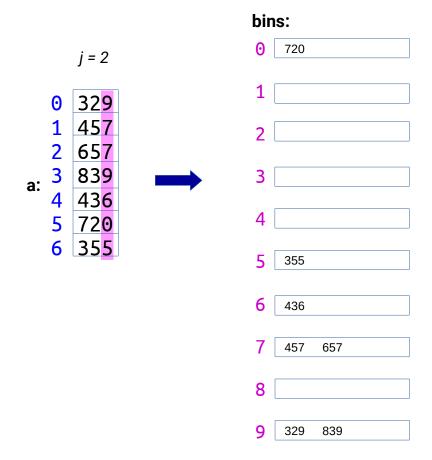
- Sort an array "a" of "n" integers, where each integer has "d" digits.
- 10 "bins" (vectors) corresponding to digits 0,...,9
- Loop, starting from the rightmost digit ("least significant"). j = d 1, d 2, ..., 0
  - For i = 0,...n-1. Insert number a[i] at the end of bin number digit(j, a[i])
  - Update array "a" by combining bins 0,...,9 (in order)
  - Clear the bins

d = 3	i = 2
u = 3	J – Z

### bins:

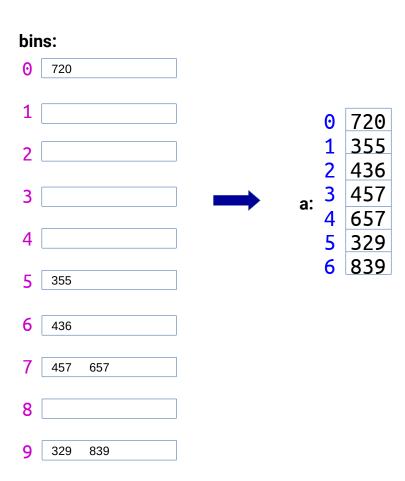
- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

- Sort an array "a" of "n" integers, where each integer has "d" digits.
- 10 "bins" (vectors) corresponding to digits 0,...,9
- Loop, starting from the rightmost digit ("least significant"). j = d 1, d 2, ..., 0
  - For i = 0,...n-1. Insert number a[i] at the end of bin number digit(j, a[i])
  - Update array "a" by combining bins 0,...,9 (in order)
  - Clear the bins

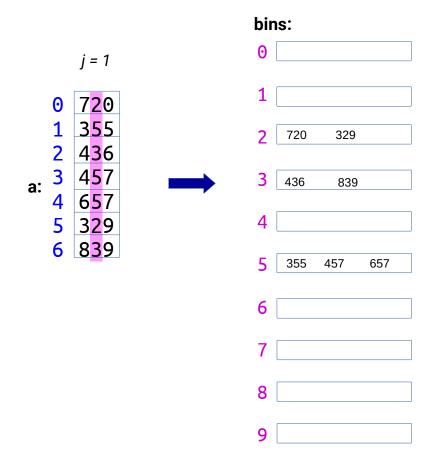


- Sort an array "a" of "n" integers, where each integer has "d" digits.
- 10 "bins" (vectors) corresponding to digits 0,...,9
- Loop, starting from the rightmost digit ("least significant"). j = d 1, d 2, ..., 0
  - For i = 0,...n-1. Insert number a[i] at the end of bin number digit(j, a[i])
  - Update array "a" by combining bins 0,...,9 (in order)
  - Clear the bins

		j = 2	
	0	32 <mark>9</mark>	
	1	457	
2 a: <sup>3</sup>	2	657	
	3	839	
a.	4	436	
	5	720	
	6	35 <mark>5</mark>	

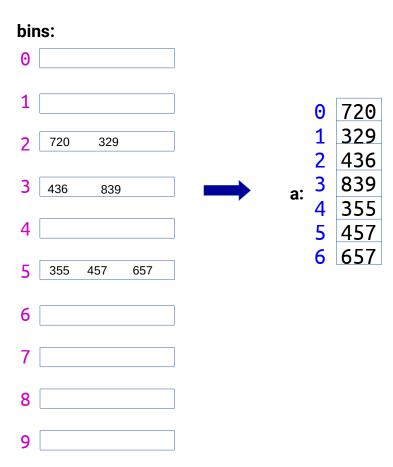


- Sort an array "a" of "n" integers, where each integer has "d" digits.
- 10 "bins" (vectors) corresponding to digits 0,...,9
- Loop, starting from the rightmost digit ("least significant"). j = d 1, d 2, ..., 0
  - For i = 0,...n-1. Insert number a[i] at the end of bin number digit(j, a[i])
  - Update array "a" by combining bins 0,...,9 (in order)
  - Clear the bins

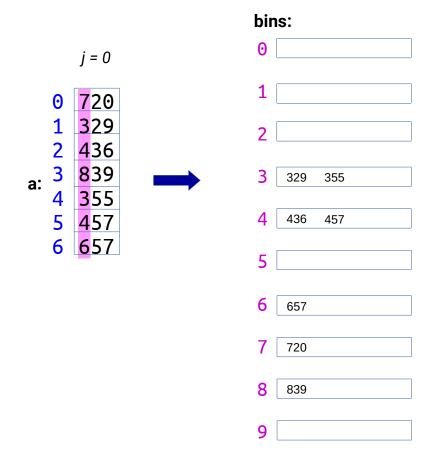


- Sort an array "a" of "n" integers, where each integer has "d" digits.
- 10 "bins" (vectors) corresponding to digits 0,...,9
- Loop, starting from the rightmost digit ("least significant"). j = d 1, d 2, ..., 0
  - For i = 0,...n-1. Insert number a[i] at the end of bin number digit(j, a[i])
  - Update array "a" by combining bins 0,...,9 (in order)
  - Clear the bins

		j	=	1
	0	7	2	0
2	1	3	5	5
	2	4	3	6
	3	4	5	7
a.	4	6	5	7
	5	3	2	9
	6	8	3	9



- Sort an array "a" of "n" integers, where each integer has "d" digits.
- 10 "bins" (vectors) corresponding to digits 0,...,9
- Loop, starting from the rightmost digit ("least significant"). j = d 1, d 2, ..., 0
  - For i = 0,...n-1. Insert number a[i] at the end of bin number digit(j, a[i])
  - Update array "a" by combining bins 0,...,9 (in order)
  - Clear the bins



### Idea:

- Sort an array "a" of "n" integers, where each integer has "d" digits.
- 10 "bins" (vectors) corresponding to digits 0,...,9
- Loop, starting from the rightmost digit ("least significant"). j = d 1, d 2, ..., 0
  - For i = 0,...n-1. Insert number a[i] at the end of bin number digit(j, a[i])
  - Update array "a" by combining bins 0,...,9 (in order)
  - Clear the bins

bin	ıs:						
0							
1						0	329
2						1	355
						2	436
3	329	355			a:	3	457
			,		a.	4	657
4	436	457				5	720
			,			6	839
5							
6	657						
			1				
7	720						
			1				
8	839						
			1				