### Advantages and Disadvantages to the Bucket Sort

#### Positive

* Very few passes required - the number of passes is dictated by the number of digits in the largest value and NOT by the number of elements
* Fast – do not slow down because the number of elements increases
* Stable – meaning they preserve the existing elements

#### Negative

* Takes up lots of working memory – must make a corresponding 2-D array
* Don’t work well if ‘length’ of element is very long (i.e. sorting 12 digit numbers)