```
rivate Book[] bucketSort(ArrayList<Book> books)
                                                                          Temporal
  Book[] booksToSort = new Book[books.size()];
  for(int c = 0; c < books.size(); c++) {
                                                                        n + 1
     booksToSort[c] = books.get(c);
  @SuppressWarnings("unchecked")
  Vector(Book)[] buckets = new Vector[booksToSort.length];
  for(int c = 0; c < booksToSort.length; c++) {
                                                                        n + 1
      buckets[c] = new Vector<Book>();
                                                                        n
  // Put array elements in different buckets
  for(int c = 0; c < booksToSort.length; c++) {</pre>
                                                                        n + 1
  int idx = (booksToSort[c].getBookCount() - 1);
                                                                        n
     if(idx>=booksToSort.length) {
          buckets[buckets.length - 1].add(booksToSort[c]);
                                                                        n
   } else {
                                                                        n
         buckets[idx].add(booksToSort[c]);
  //Sort individual buckets
  for(int c = 0; c < booksToSort.length; c++) {</pre>
                                                                        n + 1
   Collections.sort(buckets[c]);
  // Concatenate information
  int index = 0;
  for (int c = 0; c < booksToSort.length; c++) {
                                                                        n + 1
     for (int j = 0; j < buckets[c].size(); j++) {
                                                                        [n(n + 1)]/2 + n
          booksToSort[index++] = buckets[c].get(j);
                                                                        [n(n + 1)]/2
  return booksToSort;
```

Espacial

Complejidad espacial

Entrada array-> n
auxiliares buckets>n
output->n
salida -> n

O(n)