



old array = contents

contents = Arrays.copyOf(contents, 2 \* contents.length)

```
243 //helper method to double the capacity of the array
244 ⊖ /**Doubles the size of the contents array
245 *
246 * @throws IllegalStateException if doubling the size exceeds MAX
247
248 */
249 ⊖ private void doubleCapacity() throws IllegalStateException
250 {
251     int newLength = 2 * contents.length;
252     if (newLength > MAX)
253         throw new IllegalStateException("Bag size cannot exceed " + MAX);
254     contents = Arrays.copyOf(contents,newLength);
255 }
256
257 //improved definition of add that doubles capacity
258 ⊖ /** Adds a new entry to this bag.
259 @param newEntry The object to be added as a new entry.
260 @return True */
261 ⊖ public boolean add(T anEntry)
262 {
263
264     if (anEntry == null)
265     {
266         return false;
267     }
268     if (numberOfEntries >= contents.length)
269     {
270         doubleCapacity();
271     }
272
273     contents[numberOfEntries] = anEntry;
274     numberOfEntries++;
275
276     return true;
277 }
278
```