

Placing the breakpoint at the start of the index method, I then stepped through each call of the method to investigate how the while loop runs. Upon attempting to call the method on 12 as there are two instances, without the break statement it returns the latest occurrence of 12 in the array. Where as with the break statement the first instance of 12 the loop is broken and the first position is returned. We used the variable watch to monitor the value of 'position' and confirm that the latest occurrence of 12 was being stored instead.