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| **Function** | **Time Analysis in Big-O Notation** |
| size () | O (1)- Constant |
| insert (const sequence::value\_type& number\_to\_insert) | O (1)- Constant |
| insertAt (const sequence::value\_type &input, const sequence::sizeT &input\_location) | O (n)- Linear |
| get (const sequence::sizeT& index\_location) | O (1)- Constant |
| find (const sequence::value\_type& target)) | O (n)- Linear (n is size of sequence) |
| eraseFirstOccurrence (const sequence::value\_type &number\_to\_remove) | O (n2)- Quadratic (2-for loops) |
| eraseOccurance (const sequence::sizeT &which\_occurance, const sequence::value\_type &value\_to\_remove) | O (n)- Linear |
| eraseElementAt (const sequence::sizeT &at\_location) | O (n)- Linear |
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Some functions could have been faster by using the copy function, but the book discouraged it because it undermines the concept of sequence. Hence, I used for-loops.