**CMSC 204 ASSIGNMENT 2**

**UML DIAGRAM**

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| Notation |
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| + Notation( )  +convertInfixToPostfix(String) : String  +convertPostfixToInfix(String) : String  +evaluatePostfixExpression |

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| NotationStack<T> |
| **-** stack : ArrayList<T>  - size : int |
| + NotationStack( )  + NotationStack(int)  + isEmpty( ) : boolean  + isFull( ) : boolean  + pop( )  + peek( )  + top( )  + size( ) : int  + push(T) : boolean  + toString( ): String  + toString(String): String  + fill(ArrayList<T>) : void |

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| StackInterface<T> |
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| + isEmpty( ) : boolean  + isFull( ) : Boolean  + pop( )  + top( )  + size( ) : int  + push(T) : Boolean  + toString( ): String  + toString(String): String |

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| NotationQueue<T> |
| **-** queue : ArrayList<T>  - size : int |
| + NotationQueue( )  + NotationQueue(int)  + isEmpty( ) : boolean  + isFull( ) : boolean  + dequeue( )  + size( ) : int  + enqueue(T) : boolean  + toString( ): String  + toString(String): String  + fill(ArrayList<T>) : void |

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| QueueInterface<T> |
|  |
| + isEmpty( ) : boolean  + isFull( ) : boolean  + dequeue( )  + size( ) : int  + enqueue(T) : boolean  + toString( ): String  + toString(String): String  + fill(ArrayList<T>) : void |