# 6.12.16

# UMLs:

אורן, סער – 12.12.16

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| WAVLNode |
| Fields:  Private WAVLNode parent;  Private WAVLNode left;  Private WAVLNode right;  Private int[] differences;  Private int key;  Private String value; |
| Methods:  Public void setParent(WAVLNode);  Public void setLeft(WAVLNode);  Public void setRight(WAVLNode);  Public void setLeftDifference(int);  Public void setRightDifference(int);  Public void setKey(int);  Public void setValue(String);  Public WAVLNode getParent();  Public WAVLNode getLeft();  Public WAVLNode getRight();  Public int getLeftDifference();  Public int getRightDifference();  Public int getKey();  Public String getValue();  Public boolean isLeaf();  Public int whichChild(WAVLNode); |

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| WAVLTree |
| Fields:  Private WAVLNode root |
| Methods:  **public boolean** empty()  **public** String search(**int** k) **public int** insert(**int** k, String i)  **public int** delete(**int** k) **public** String min() **public** String max() **public int**[] keysToArray() **public** String[] infoToArray() **public int** size() |