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CIS 3501

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Program 02 – White House Shuffle

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Memo

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| --- | --- | --- |
| Name of Function | Time Analysis O( ) | Space Analysis ( ) |
| WhiteHouse( string ) | O( 1 ) | ( 1 ) |
| ~WhiteHouse( ) | O( 1 ) | ( 1 ) |
| getRoot( ) | O( 1 ) | ( 1 ) |
| emptyTree( ) | O( 1 ) | ( 1 ) |
| find( Node \* , string ) | O( n ) | ( n ) |
| hire( string, string ) | O( n ) | ( 1 ) |
| fire( string ) | O( n2 ) | ( n2 ) |
| reorder\_tree( Node \* ) | O( n2 ) | ( n ) |
| print ( Node \*, int ) | O( n ) | ( n ) |
| main( ) | O( n2 ) | ( n2 ) |

Class Diagram of class <WhiteHouse>

