**Grupo**:

* Pedro Paulo da Silva - 1421422
* Stephanie Fay - 1721631
* Thiago Lages de Alencar - 1721629

**Dummy code**

// dummy

bool isRet = false ;

isRet = vtObj[ inxTree ]->InsertAVLtreeSymbol(vtAVLsymbols[inxSymbol].symbol);

printf( "\nSymbol %3i %s" , inxSymbol , vtAVLsymbols[ inxSymbol ].symbol);

if(isRet == true && vtAVLsymbols[ inxSymbol ].isInTree == false) {

vtAVLsymbols[ inxSymbol ].isInTree = true;

} else if(isRet == true && vtAVLsymbols[ inxSymbol ].isInTree == false) {

printf( ">>> Symbol inserted but not registered " ) ;

isErrorCount ++ ;

} else if(isRet == false && vtAVLsymbols[ inxSymbol ].isInTree == false) {

printf( ">>> Symbol not inserted " ) ;

isErrorCount ++ ;

}

// end dummy

**GenerateTest**

== Generate test script

=DeleteTree Tree01

=NewTree Tree01

=GenerateTest Tree01 30 35 35

**Mensagem do script após alteração**:

247 == Verify memory leak

>>> 1 Line 249 Incorrect number of allocated bytes Is 12122 Should be 11420

>>> 2 Line 250 No recovery provided. Command ignored: =AllocCompareNum 3

2018/06/19-22:58:37 : !!! End of test, script file: tst-avl-01.script

!!! \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

!!! --------------------

!!! Test ended

Test statistics: Test files 1 Test cases 20 Test commands 157 Test lines 250

Test ending condition: >>> 2 <<< failures found.

2018/06/19-22:58:37 : Log end: EVENT

>>> 28 Allocated data spaces remain: 26, verify memory leakage.

>>> Log closed: ---DataSpace Id: 227 Size: 27 Line: 242 File: avltree.cpp Addr: 00F198F0

. . .

>>> Log closed:

!!! Spaces still allocated: 26

>>> Log closed:

!!! Total data spaces allocated: 555

>>> Log closed:

!!! Total data spaces deleted: 371

>>> Log closed:

!!! ------------------------------

>>> TEST found 28 problems.

!!! ------------------------------

**Problema**: Mesmo após modificar o código como o enunciado pediu, continua inserindo símbolos já existentes.

**Script gerador do erro**: *tst-avl-01.script* (alterado com o =GenerateTest)

**Solução proposta**:

A solução não pode ser tratada apenas no *TST\_AVL.CPP* (*PerformSpecificTest*), pois lá é apenas responsável por realizar o teste.

Não inserir os símbolos existentes e retornar a árvore sem alteração.

**Método**

tpTreeElement \* AVL\_Tree ::

DoInsertAVLelement( tpTreeElement \* pCurrElement ,

tpTreeElement \* pNewElement )

**Antes**

if ( is < 0 )

{

pCurrElement->pLeftSubTree = DoInsertAVLelement( pCurrElement->pLeftSubTree , pNewElement ) ;

pCurrElement->pLeftSubTree->pParent = pCurrElement ;

} else if ( is > 0 )

{

pCurrElement->pRightSubTree = DoInsertAVLelement( pCurrElement->pRightSubTree , pNewElement ) ;

pCurrElement->pRightSubTree->pParent = pCurrElement ;

} else

{

// New node exists

pElementFound = pCurrElement ;

return pNewElement ;

} /\* if \*/

**Depois**

if ( is < 0 )

{

pCurrElement->pLeftSubTree = DoInsertAVLelement( pCurrElement->pLeftSubTree , pNewElement ) ;

pCurrElement->pLeftSubTree->pParent = pCurrElement ;

} else if ( is > 0 )

{

pCurrElement->pRightSubTree = DoInsertAVLelement( pCurrElement->pRightSubTree , pNewElement ) ;

pCurrElement->pRightSubTree->pParent = pCurrElement ;

} else

{

// New node exists

pElementFound = pCurrElement ;

delete pNewElement;

return pCurrElement;

} /\* if \*/

**Problema**: Mesmo após modificar o código como o enunciado pediu, continua inserindo símbolos já existentes.

**Script gerador do erro**: *tst-avl-04.script*

**Solução**: Nenhuma, acredito que o erro ocorrido seja por não ter os erros esperados.