

Mar 11, 09 11:15

Functions.cpp

Page 1/1

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/*****
/
/      filename:  Functions.cpp
/
/      description:  Usefull functions to convert strings to ints and
/                   to make tokens.
/
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/
/      class:  CPS 346
/      instructor:  Perugini
/      assignment:  PJ #2
/
/      assigned:  February 18, 2009
/      due:  March 11, 2009
/
/*****/

#include <iostream>
#include <iomanip>
#include <queue>
#include <list>
#include <vector>
#include <string>
#include <fstream>
using namespace std;

/***** Function: MakeTokens *****/
//This function makes tokens out of the numbers/letters given in the
//input file and places them into a vector for ease of use.
//Pre: The numbers/letters must be the ones that you want to be in
//      the vector. It takes care of all the whitespace.
//Post: Return the vector with tokens in it.
vector < string > MakeTokens (const string & str, const string & delim)
{
    vector < string > tokens;
    size_t p = 0, pl = string::npos;
    while (p != string::npos) {
        pl = str.find_first_of (delim, p);
        if (pl != p) {
            string token = str.substr (p, pl - p);
            tokens.push_back (token);
        }
        p = str.find_first_not_of (delim, pl);
    }
    return tokens;
}

/***** Function: StringToInt *****/
//This function makes strings into ints.
//Pre: The string must be an integer before placing in function.
//Post: Returns the int from the conversion of the string.
int
StringToInt (string strconvert)
{
    int conversion;
    conversion = atoi (strconvert.c_str ());
    return (conversion);
}

```