## Devin Hardy

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// Devin Hardy
// Asg 1
// Attempt at the parcing problem
#define CRT SECURE NO WARNINGS
#include <iostream>
#include <cstring>
#include <string>
#include <algorithm>
char* makeCStrg(std::string str)
    char* char_array = new char[str.length() + 1];
    char array[str.length()] = '\0';
   for (int i = 0; i < str.length(); i++)</pre>
        char_array[i] = str[i];
   return char array;
}
// [X] string to c-string
// [?] splits the c-string into tokens
// [?] have pointers to tokens
// [?] pointer at pointers
// special characters '<', '>', '<<', '>>', '|' = white space
// return a dynamiclly allocated array of c-strings
// double pointer is an array of something
char** parseCommandLine(std::string aCommandLine)
{
    int M = 10;
    int i = 0;
    const char delim[] = { '<', '>', '<<', '>>', '|', ' '};
    char* cStrg = makeCStrg(aCommandLine);
    char* token = strtok(cStrg, delim);
    char** pntr = new char* [M]; // pointer array of 5
   while (token!=NULL) // get the rest of the tokens
    {
        pntr[i] = token; //
        i++;
       token = strtok(NULL, delim);
   pntr[i] = NULL;
   return pntr; // return pointer
// So far string into a c string
int main()
    std::string example = "example<line|of code >>no promise it works";
    char** tokens = parseCommandLine(example);
    int itr = 0;
   while (tokens[itr] != NULL)
        std::cout << tokens[itr] << std::endl;</pre>
```

```
itr++;
    std::cout << std::endl;</pre>
    std::cout << "I have no clue what the parse commands will actually look like" <<</pre>
std::endl;
    std::cout << "but I figured that my example will do okay for now." << std::endl;</pre>
    return 0;
}
// Run program: Ctrl + F5 or Debug > Start Without Debugging menu
// Debug program: F5 or Debug > Start Debugging menu
// Tips for Getting Started:
// 1. Use the Solution Explorer window to add/manage files
//
    2. Use the Team Explorer window to connect to source control
    3. Use the Output window to see build output and other messages
//
//
    4. Use the Error List window to view errors
   5. Go to Project > Add New Item to create new code files, or Project > Add Existing
Item to add existing code files to the project
// 6. In the future, to open this project again, go to File > Open > Project and select
the .sln file
```

```
example line of code no promise it works

I have no clue what the parse commands will actually look like but I figured that my example will do okay for now.

C:\Users\Devin\Desktop\Things\School\Spring 2023\Operating Systems\Assignments\Work\ConsoleApplication1\Debug\ConsoleApp lication1.exe (process 16504) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso le when debugging stops.

Press any key to close this window . . .
```