

CS 270

Homework 02

Due 09/23/09

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I. Goal/Motivation

The purpose of this lab was to experiment with malloc and parsing, to see how the Operating System usually does things.

II. Code

See attached files main.cpp.pdf and main.cpp

III. Data/Output

main.cpp -

```
jentoo@jentoo:~/CS_270/hw02$ ./main
```

```
Data structure argv[0]: ls
```

```
Data structure argv[1]: -l
```

```
Data structure argv[2]: file
```

```
Found 3 tokens
```

```
jentoo@jentoo:~/CS_270/hw02$ ./main
```

```
Data structure argv[0]: ls
```

```
Data structure argv[1]: -l
```

```
Data structure argv[2]: file
```

```
Data structure argv[3]: -o
```

```
Data structure argv[4]: out
```

```
Found 5 tokens
```

IV. Revision of Data/Conclusion

I wasn't at first able to complete the assignment, and spent a lot of time struggling with c char *'s and pointers of which in C. I went to C++, and found some ease with parsing. Still not at great parsing language, but a little better. I was able to finally get parsing finished, but still had problems with getting a way of allocating spaces for the strings delimited by the space character, into a char * array. The only way was to make a global array set to a large

size, and hope it would work for my purposes. It did, as the size will allow for 5000 options, which is plenty of space.

I don't like using global temporary variables, but for file allocation, I had to. I couldn't quite master the pointers and memory allocation of which. My C/C++ is about a year rusty, but it will benefit me a lot to pickup those old reference books and readup. I think this homework will help greatly with brushing off the rust from my C/C++.