

CS 429H

Assignment 3

This assignment covers material from class and in Chapter 3 "Computer Systems: A Programmer's Perspective". Familiarity with the reading in this chapter is essential.

Your assignment is to provide solutions for Chapter 3 problems 3.60, 3.63 3.65 and to answer the following questions.

Questions:

1. Given the following code, write three different ways to access the elements "the", "special", and "best". You must use the variables p, q and array at least once each. Explain how each method works.

```
1 main(void) {
2     static char *array[3][3]=
3         {{":|(", "the", "compiler"},
4         {"is", "your", "special"},
5         {"best", "friend", ":",|)"}};
6     char *(*p)[3]=array;
7     char **q=(array+1);
8 }
```

2. Given

```
1 struct Fun {
2         int a;
3         int b;
4         int c;
5         int d;
6     }
```

write y86 code that calls function void science(struct Fun x) with a struct Fun that contains a = 4, b = 6, c = 3 and d = 8.

Only electronic submissions will be accepted. Electronic submissions must be in text (.txt) or pdf formats. Turnin your assignment using Canvas. The assignment is due at 11:59 pm, March 6, 2014.