

CS 429

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, 3.62, 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 SafeAssign on BlackBoard. Details will be posted as the due date approaches.