

CS 161 Recitation

Quiz #10

1. (2 pts) True or False:

1.1. If a program was executed with "a.out yellow 5", then (argc == 2) would return

T F

1.2. If a program was executed with "a.out yellow 5", then (argv[1][1] == 'e') would return

T F

2. (6 pts) Assume a 2-D array p has already been created with the code below. For each of the following a), b), c), d), e), and f) scenarios, write Memory Leak or No Leak to indicate whether any memory is leaked. Note that questions a-f are completely independent and don't affect each other.

```
string **p = new string*[2];
for(int i=0; i<3; i++)
    p[i] = new string[3];
```

a) delete [] p;
p=NULL;

b) p[0] = new string[10];

c) delete [] p[1];
p[1] = new string[10];

d) for(int i=0; i<=2; i++)
 delete [] p[i];
delete [] p;

e) for (int i=0; i<3; i++)
 delete [] p[i];
p = NULL;

f) for (int i=0; i<3; i++)
 delete [] p[i];
for (int i=0; i<3; i++)
 p[i] = new string[5];

3. (2 pt) What did you like the most about recitations? What did you like the least about recitations?

4. Extra Credit: (1 pt) In one or two sentences, explain what a **struct** is.