## **16.216: ECE Application Programming**

Fall 2011

Lecture 29: Key Questions November 21, 2011

1. Describe how character arrays can be used to represent strings in C.

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M. Geiger Lecture 29: Key Questions

- 2. Describe the C functions used for:
- a. Copying one string to another

b. Comparing two strings

c. Checking the number of characters in a string

d. Concatenating two strings together

## 3. **Example:** What does the following program print?

```
int main() {
     char s1[15];
     int n1;
     char s2[10] = ".216";
     int n;
     strncpy(s1, "16", 15);
     n1 = strlen(s1);
     printf("s1 = %s\n", s1);
     printf("Length of s1 = d\n\n", n1);
     printf("%c\n\n", s1[1]);
     strncat(s1,s2,10);
     n1 = strlen(s1);
     printf("s1 = %s\n", s1);
     printf("Length of s1 = dn^n, n1);
     // Assume user inputs: ABC ABD
     printf("Enter two strings:");
     scanf("%s%s", s1, s2);
     n = strncmp(s1, s2, 15);
     if (n > 0)
           printf("%s > %s\n", s1, s2);
     else if (n < 0)
           printf("%s < %s\n", s1, s2);
     else
           printf("%s == %s\n", s1, s2);
     return 0;
}
```