

Array as Function Parameters: uppercase.c

- while an array parameter (pointer) is passed by value, the memory locations of the array elements are thus effectively passed by reference
- i.e. the function can change the array's elements issue: length of the array?

```
#include <stdio.h>
#include <string.h>

void uppercase(char string[]);

int main(void) {
    char vowels[6];

    strcpy(vowels, "aeiou");
    printf("%s\n", vowels);

    uppercase(vowels);

    printf("%s\n", vowels);

    return 0;
}

// alt.: declare as char *string
void uppercase(char string[]) {
    int i = 0;
    while (string[i] != '\0') {
        string[i] = string[i]
            - 'a' + 'A';
        i++;
    }
}
```

For Next Lecture: Look at string.c

```
#include <stdio.h>
int main(){
    char name[100];
    printf("Enter your name\n");
    scanf("%s", name);
    printf("Your name is %s\n", name);
    return 0;
}
```

- why is there no & in this scanf()?
- run the program and input both your first and lastname separated by a space.
What is printed out and why?