## ForNextDay(5) Stephen Cole

List two "pointer fails" that demonstrate an incorrect use of pointers. For each, explain why it's a problem.

```
1. int *const p = 1;

*p++;

p = 3; //Fail
```

Cannot change the value integer value of constant pointer to integer.

```
2. const int *p;
p = 1;
*p++; //Fail
```

Cannot increment address of a pointer to a constant integer.

```
scanarray.c
#include<stdio.h>
#include<stdlib.h>
int main(void)
       int numVals;
       int n;
       printf("Enter the number of values in your array: ");
    scanf("%d", &n);
       int a[n];
       numVals = scanfIntArray(a, n);
       printf("Number of values in array: %d\n", numVals);
       return 0;
}
int scanfIntArray(int a[], int n){
     int i;
     for(i=0;i< n;i++)
          int in;
          printf("Enter an integer: ");
          scanf("%d", &in);
          a[i] = in;
```

```
return n;
[scole4@gaea lecture6]$ ./test
Enter the number of values in your array: 2
Enter an integer: 1
Enter an integer: 2
Number of values in array: 2
[scole4@gaea lecture6]$ ./test
Enter the number of values in your array: 4
Enter an integer: 1
Enter an integer: 2
Enter an integer: 3
Enter an integer: 4
Number of values in array: 4
maxmin.c
#include<stdio.h>
int main(void)
     int a[5] = \{1,2,3,4,5\};
     int n = 5;
     int max = 0;
     int min = 10;
     max min(a, n, &max, &min);
     printf("Max value: %d, Min value: %d\n", max, min);
     return 0;
}
void max min(int a[], int n, int *max, int *min)
{
     int i;
     for(i=0; i<n; i++)
           printf("cur: %d, max: %d, min: %d\n", a[i], *max, *min);
           if(a[i] > *max)
```

Max value: 5, Min value: 1

\*max = a[i];