

1) (5 pts) ANL (Algorithm Analysis)

What is the best and worst case runtime for the following algorithm, in terms of the input parameter n ? Give a brief explanation for your answers.

```
int foo(int * arr, int n){  
    if (n == 0)  
        return 0;  
  
    int j = 0, i;  
  
    for (i = 0; i < n; i++)  
        if (arr[i] > arr[j])  
            j = i;  
  
    int nLen = n - j - 1;  
    return arr[j] + foo(arr + j + 1, nLen);  
}
```