

# Algorithm/Running Time Analysis

# Running Time

- Why do we need to analyze the running time of a program?
- Option 1: Run the program and time it
  - Why is this option bad?
  - What can we do about it?

# Pseudo-Code

- Used to specify algorithms
- Part English, part code

```
Algorithm (arrayMax(A, n))
```

```
  curMax = A[0]
```

```
  for i=1 i<n i++
```

```
    if curMax < A[i]
```

```
      curMax = A[i]
```

```
  return curMax
```