CS16 - Psuedocode Reference

Spring 2006

- **Determine the title**
  make sure that you Title your algorithm appropriatly
- **Specify the input and output (paramaters and return)**
  and be sure to include any restriction on on the inputs
- **Be mindful of how loops are done in pseudocode**
  they are different than in java
- **Be careful with your tabbing**
  since there are no braces to indicate blocks of code
- **Use methods found in adt instead of describing what the do**
  instead of saying " check if queue is empty" write queue.isEmpty()
- **Use symbols appropiatly**
  for example $\leftarrow$ instead of = for assignment
- **Make sure to pass in or instantiate all variables**
  do not use S.isEmpty() without instatiating S or having S be a paramater
- **Comments go in braces**
- **Method calls are identical to java**
  for example ta.holdHours(2)
- **Refer to slides if you don't know the format of the code you want.**

Java Version

```
public int arrayMax(int[ ] intArray, int n) {
  int currentMax = intArray[0];
  for(int i = 1 ; i < n ; i++) {
      if (currentMax < intArray[i]) {
         currentMax = intArray[i];
      }
  }
return currentMax;
}
```

PsuedoCode Version

Algorithm arrayMax(A,n):
  Input: An array A storing n ≥ 1 integers
  Output: The maximum element in A.
$currentMax \leftarrow$ A[0]
for $i \leftarrow 1$ to $n - 1$ do
  if $currentMax <$ A[i] then
      $currentMax \leftarrow$ A[i]
return $currentMax$