

CS 16 Pseudocode standards

Example: Java to pseudocode conversion

This example is NOT from Dasgupta, but may help those of you who are used to Java learn to write pseudocode.

Java Version

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

PseudoCode Version

procedure arrayMax (A , n)

Input: An array A storing $n \geq 1$ integers

Output: The maximum element in A

```
maximum =  $A[0]$ 
for  $i = 1$  to  $n - 1$ :
    if  $maximum < A[i]$ :  $maximum = A[i]$ 

return  $maximum$ 
```

For more resources on this, consult the Improving Pseudocode Lecture!