

## A Checklist of Good Pseudocode

### Variables

- Has every variable been declared before it is first used?
- Does every variable declaration specify a data type?
- If the variable is an array variable, is the size of the array given as a *specific* number?
- Has every variable been assigned a value (either by Input or Set) before it is first referenced?

### Control Structures

- Does every IF have a matching ENDIF?
- Is every ELSE and ELSE IF located inside an IF...ENDIF pair?
- Does every WHILE have a continuation condition specified?
- Does every WHILE have a matching END-WHILE?
- Does every REPEAT have a matching UNTIL?
- Does every UNTIL have a termination condition specified?
- Does every FOR have a matching END-FOR?
- If a control structure is nested inside another control structure, is it *completely* enclosed? (No partial overlapping of control structures!)

### Function Definitions

- Does each formal parameter of the function have a data type specified?
- Is the data type of the result to be returned specified?
- Does the function have a RETURN statement specifying the value to be returned?

### Calling a Function (applies to calls to both user-defined and library functions)

- In every call to the function, does the number of actual parameters match the number of formal parameters for the function being called?
- In every call to the function, do the data types of the actual parameters match the data types of the formal parameters for the function being called?
- At the point where the function is called, is appropriate use made of the value returned?