Iaşi, October 3rd, 2016

Pseudo-code language in a nutshell

1. assignment $< variable > \leftarrow < expression >$

2. if

if $< expression >$ **then**
$< instruction_1 >$
else
$< instruction_2 >$

if $< expression >$ **then**
$< instruction_1 >$

3. while

while $< expression >$ **do**
$< instruction - sequence >$

4. repeat

repeat
$< instruction - sequence >$
until $< expression >$;

5. for

for $< variable > \leftarrow < expression_1 >$ ***to*** $< expression_2 >$ **do**
$< instruction - sequence >$

for $< variable > \leftarrow < expression_1 >$ ***downto*** $< expression_2 >$ **do**
$< instruction - sequence >$

6. return **return** [$< expression >$]

7. input **read** $< variable >, \cdots$

8. output **print** $< expression >, \cdots$

9. procedures

procedure *name (formal-parameter-list)*
begin
$< instruction - sequence >$
end

call:
$name(actual - parameter - list)$

function *name (formal-parameter-list)*
begin
$< instruction - sequence >$
return $< expression >$
end

the body of a **function** contains at least one **return** $< expression >$ instruction.