"ALEXANDRU IOAN CUZA" UNIVERSITY OF IAŞI, FACULTY OF COMPUTER SCIENCE "Data Structures" seminar



Iași, October 1st, 2022

Pseudo-code language in a nutshell

```
1. assignment
                    < variable > \leftarrow < expression >
2. <u>if</u>
      if < expression > then
                                                      if < expression > then
           < instruction_1 >
                                                          < instruction_1 >
      else
           < instruction_2 >
3. while
       while < expression > do
          < instruction - sequence >
4. repeat
      repeat
          < instruction - sequence >
      until < expression >;
5. for
      \mathbf{for} < variable > \leftarrow < expression_1 > \mathbf{to} < expression_2 > \mathbf{do}
          < instruction - sequence >
      \mathbf{for} < variable > \leftarrow < expression_1 > \mathbf{downto} < expression_2 > \mathbf{do}
          < instruction - sequence >
6. return
              return [< expression >]
7. input
             read < variable >, \cdots
8. output
              print < expression >, \cdots
9. procedures
                                                             call:
      procedure name (formal-parameter-list)
      begin
                                                             name(actual - parameter - list)
           < instruction - sequence >
      end
      function name (formal-parameter-list)
                                                             the body of a function contains at least one
                                                             return < expression > instruction.
          < instruction - sequence >
          return < expression >
      end
```