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C:\> cd Algoritma
1  //! what is Algorithm?
2  /*
3      ? Algorithm is a step by step instruction in order to solve a problem or perform a task.
4
5      ^ It is a series of steps arranged one after the other until I reach a goal, and it is a sequence of steps
6      ^ and operations until I am able to solve a problem
7
8      * Always divide the problem into parts and work on each part one at a time
9
10     $ the algorithm in the programming context:
11         # is a set of well-defined instructions or rules that outline how to solve a
12             specific problem or perform a particular task using a computer.
13         # it is a precise sequence of steps that takes an input, processes it, and produces an output.
14     ~ In programming, it consists of commands arranged one after another in a logical way in
15     ~ order to solve a problem or perform a specific task
16
17     !your life is an algorithm:
18         # you wake up
19         # you brush your teeth
20         # you take a shower
21         # you get dressed
22         # you have breakfast
23         # you go to work/school
24         # you come back home
25         # you have dinner
26         # you relax or do hobbies
27         # you go to sleep
28
29 */

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29
30  /// the secret of algorithm :
31      //## divide and conquer idea
32
33  //~ No matter how big my problem is, break it down into smaller problems
34
35  //? So that I can think and develop my abilities in thinking and analysis
36  //? and arrive at solving problems using tools that I use, such as:
37      //// flowcharts /////
38
39  /// what is flowchart?
40  /*
41      ? flowchart :
42          # is a programming design tool that uses graphical elements to
43          # visually depict the flow of logic within a program or system.
44          * it is a tool design that helps you think about the structure of your
45          * program before you start coding or the problem to be solved.
46

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47  ? flowchart Symbols:
48      % Terminator flowchart:
49          Represents the start or end of a process.
50      % rectangle :
51          Represents a process or operation or calculation to be performed.
52      % Decision (diamond):
53          Represents a decision point that can lead to different paths based on conditions.
54          used for asking a question & making a decision based on the answer (yes/no).
55      % Input/Output flowchart (parallelogram) :
56          Represents data input or output operations.
57      % Arrow:
58          Indicates the flow of control from one step to another.
59          flow lines with arrows to connect the various flowcharting symbols
60  */

```