

What is an algorithm?

In what ways can algorithms be expressed?

Book definition: a well-defined computational procedure that takes some value, or set of values, as input and produces some value, or set of values as output

Defining algorithms:

- Write a program
- Make a Turing machine
- Pseudocode
- Flow charts
- Hardware diagram

Algor. then to compute the sum of the elements of an array

Input: array of size n

Output: sum of the elements of the array

Sum := 0

for i from 1 to n :

 Sum := Sum + array[i]

return Sum

$$\sum_{i=1}^n \text{array}[i]$$