EXAMPLE 4

Algorithm:
Step 1: Input a, b, c
Step 2: d = $\sqrt{b^2 - 4ac}$
Step 3: $x_1 = \frac{-b + d}{2a}$
Step 4: $x_2 = \frac{-b - d}{2a}$
Step 5: Print $x_1, x_2$

DECISION STRUCTURES

The expression $A > B$ is a logical expression. It describes a condition we want to test:

- If $A > B$ is true (if $A$ is greater than $B$) we take the action on left, print the value of $A$.
- If $A > B$ is false (if $A$ is not greater than $B$) we take the action on right, print the value of $B$.

IF–THEN–ELSE STRUCTURE

The structure is as follows:

- If condition then
  - true alternative
  - else
    - false alternative
  - endif