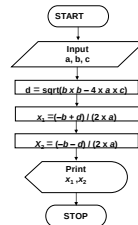


EXAMPLE 4

Algorithm:

Step 1: Input a, b, c
 Step 2: $d = \sqrt{b^2 - 4 \times a \times c}$
 Step 3: $x_1 = (-b + d) / (2 \times a)$
 Step 4: $x_2 = (-b - d) / (2 \times a)$
 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

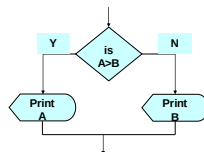
print the value of A

if $A > B$ is false (if A is not greater than B) we take the action on right

print the value of B

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DECISION STRUCTURES



IF—THEN—ELSE STRUCTURE

The structure is as follows

If condition then

true alternative

else

false alternative

endif