

Exercises on Algorithms

Problem 1: Enter a numerical value and printout the next and the previous value.

START

```
Variables X, PREV, NEXT
WRITE "Enter a number:"
READ X
NEXT := X + 1      (NEXT ← X+1)
WRITE "The next value is:"
WRITE NEXT
PREV := X - 1      (PREV ← X-1)
WRITE "The previous value is:"
WRITE PREV
```

END

Problem 2 :

Create the algorithm for display the result of the addition, subtraction, multiplication and division of two numbers.

START

```
Variables X, Y, Z
WRITE "Enter the first number:"
READ X
WRITE "Enter the second number:"
READ Y
Z := X + Y      (Z ← X+Y)
WRITE "The result of the addition is:"
WRITE Z
Z := X - Y      (Z ← X-Y)
WRITE "The result of the subtraction is:"
WRITE Z
Z := X * Y      (Z ← X*Y)
WRITE "The result of the multiplication is:"
WRITE Z
IF ( Y = 0 ) THEN      Z := 0
ELSE      Z := X / Y      OR (Z ← X/Y)
WRITE "The result of the division is:"
WRITE Z
```

END

Translate those algorithms into Java programs.

Upload your file by LEA of Omnivox.

Thank you.