**Title**: Program 1: 3 Number Sort  
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**Description**: This program will prompt the user for three numbers and displays them in ascending order.

**Initial Algorithm**

Get 3 numbers

Add the smallest number to a list

Add the second smallest number to a list

Add the remaining number to a list

Display the list in ascending order

**Data Requirements**:

(int) number1 – This is the first number given by the user.

(int) number2 – This is the second number given by the user.

(int) number3 – This is the third number given by the user.

(int[]) list – This is the list of numbers in ascending order.

(Scanner) user\_input – This object holds the user’s input.

**Formulas**: None

**Refined Algorithm**

Get 3 numbers

IF number1 < number2 AND number1 < number3 THEN

Put number1 first in list

IF number2 < number3 THEN

Put number2 second in list

Put number3 third in list

ELSE

Put number3 second in list

Put number2 third in list

END IF

ELSE IF number2 < number1 AND number2 < number3 THEN

Put number2 first in list

IF number1 < number3 THEN

Put number1 second in list

Put number3 third in list

ELSE

Put number3 second in list

Put number1 third in list

END IF

ELSE

Put number3 first in list

IF number1 < number2 THEN

Put number1 second in list

Put number2 third in list

ELSE

Put number2 second in list

Put number1 third in list

END IF

END IF

Display numbers from list in ascending order