Algorithms (Additional Activities):

1. Algorithm to Find the Sum of Even Numbers 2, 4, 6, ..., n:

Start

Set Sum = 0

Input n (the last number)

For i from 2 to n (incrementing by 2):

Sum = Sum + i

Output Sum

Stop

2. Algorithm to Read 100 Numbers and Display the Sum:

Start

Set Sum = 0

For i from 1 to 100:

Read number

Sum = Sum + number

Output Sum

Stop

3. Algorithm to Read Two Numbers and Display the Largest:

Start

Read number1

Read number2

If number1 > number2:

Output number1

Else:

Output number2

Stop

4. Algorithm to Read Two Numbers and Display the Smallest:

Start

Read number1

Read number2

If number1 < number2:

Output number1

Else:

Output number2

Stop

5. Algorithm to Read Three Numbers and Display the Largest:

Start

Read number1

Read number2

Read number3

If number1 >= number2 and number1 >= number3:

Output number1

Else If number2 >= number1 and number2 >= number3:

Output number2

Else:

Output number3

Stop

6. Algorithm to Read 100 Numbers and Display the Largest

Start

Set largest = -∞

For i from 1 to 100:

Read number

If number > largest:

largest = number

Output largest

Stop