

Write a program that asks the user how many integers they would like to enter. You can assume they will enter a number  $\geq 1$ . The program will then prompt the user to enter that many integers. After all the numbers have been entered, the program should display the largest and smallest of those numbers (no, you cannot use arrays, or any other material we haven't covered). When you run your program it should match the following format:

```
How many integers would you like to enter?
4
Please enter 4 integers.
-4
105
2
-7
min: -7
max: 105
```

The file must be named: **minmax.cpp**.

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### Testing Plan:

Description			Results	
Input:	1	2	Output:	"min: 2, max: 2"
Input:	2	3, 4	Output:	"min: 3, max: 4"
Input:	3	5, 2, 11	Output:	"min: 2, max: 11"
Input:	4	3, 3, 7, 9	Output:	"min: 3, max: 9"
Input:	5	-2, 12, 16, 3, 5	Output:	"min: -2, max: 16"
Input:	10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	Output:	"min: 1, max: 10"

## **Project Plan:**

### **Define what the program will do:**

Purpose: To calculate and output the min and max of the numbers inputted by the user

Input: The number of integers and the integers themselves

Processing: Calculate the min and max using loops

Output: Display the min and max

### **Pseudocode:**

*//Begin*

*Prompt User to input the number of integers they would like to enter*

*Initialize input to the user-entered value*

*Prompt User to enter the number of integers based on the amount entered prior*

*Set while loop with counter to run if-loops until min and max are determined*

*Nest if-loop to calculate min of integers input by user*

*Nest if-loop to calculate max of integers input by user*

*Output the min value*

*Output the max value*

*//End*