

Name _____

Date _____

3.1 Little Man Computer

Getting started

Open the Little Man Computer from the website:

<https://peterhigginson.co.uk/lmc/>

and

<https://peterhigginson.co.uk/lmc/help.html>

Enter the following program:

INP

STO 50

INP

ADD 50

OUT

Answer the following questions. You may need to run the program several times. Clicking STEP will let you run the program one step at a time.

1 What does the program do?

2 What does the program counter do?

3 Which memory location is the first value input stored in?

4 Which memory locations are the program instructions stored in?

Practice

- 1 Change the program to allow for 3 numbers to be input and added together.
- 2 What does the accumulator store?

Challenge

- 1 Change the program to add 2 numbers and then subtract a third number.
 - 2 What do the instruction register and address register store?
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- 3 A memory location can have the data 350. What does the 3 mean? What does the 50 mean?
