

## Problem 5 – MICS L

Professor Plum likes the idea of MICS 2017 being the 50<sup>th</sup> anniversary, or ‘L’ in Roman numerals. He wants you to write a program to generate ASCII art printing “MICS L” for a sign to tape on the back of the MICS’s trip van. Since he does not know the dimensions of the sign, so he wants your program to take as input positive integer scaling factors.

Scaling Factor	Letter Dimension of MICS (# chars $\times$ # chars)	Line Width of All Letters (# chars)	Blank Lines Between Letters MICS	Letter Dimension of L (# chars $\times$ # chars)	Blanks Between MICS and L
1	$5 \times 5$	1	1	$23 \times 20$	5
2	$10 \times 10$	2	2	$46 \times 40$	10
3	$15 \times 15$	3	3	$69 \times 60$	15
10	$50 \times 50$	10	10	$230 \times 200$	50

A scaling factor of 1 would produce:

A scaling factor of 2 would produce:

```

Case 1:
M      M      L
MM MM    L
M M M    L
M      M    L
M      M    L
      L
IIIIII    L
      I      L
      I      L
      I      L
IIIIII    L
      L
CCCCC     L
C          L
C          L
C          L
CCCCC     L
      L
SSSSS     L
S          L
SSSSS     L
      S      L
SSSSS     LLLLLLLLLLLLLLLLLLLLLLLLLL

```

## Input

The first line contains the number of scaling factors. Each of the following lines contains a single positive integer scaling factor. The below sample input has 3 scaling factors.

3  
1  
2  
3

## Output

The output should contain the ASCII art for each sign corresponding to the scaling factor specified by the input.

[illegible]

**NOTE:** All lines for a sign should be the same length by padding shorter lines with blanks. No blank lines are between cases. Output for above input is spread cross the three “boxes” (see next page too).

[illegible]