Re-edited flowchart for program 1

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(Commercial calculator)

↓ — Introduce the main purpose

[Welcome the user]

↓ — prompt the user (enter a number in the range of 0-60 (inclusive))

[Get the user input the length of the show]

↓

[Read in the answer]

↓

No ← ⟨ Valid? ⟩ — Was the answer entered in the range of 0-60 (inclusive)?

↓ Yes

/ Echo the answer out /

↓

[Calculate the length for commercials] — Formula: length for commercials = 60 - length of the show — output the result

↓

[Get the user input the length of the commercials they want to air] — prompt the user — Read in the answer

↓

"We are out of time" / more than

[Test the value (compare to "the length left over for commercials")] — if the value is ("0")

↓ less than equal to "the length left over for commercials"

[increment the number for the amount of commercials]

↓

[Calculate how many mins left for commercials] — Inform the user the result

↓

Yes ← ⟨ still time left? ⟩

↓ No

[Calculate how many mins are left over]

↓

/ output: "There is still time left over, filler commercials ......" /

↓

/ Output: "There are xxx (how many) commercials that can fit in the show. And the length needed for filler commercials should be xxx minutes." /

↓

[Get the user input: calculate again? (Y/N)]
Not Y/N

↓

[Read in the answer] Y

↓ N

(End the program and output goodbye message)