CESIL

Program headers

**	followed by any text
*C	followed by any text (batch mode only)
program name	any text (batch mode only)

CESIL statements

IN	Input data item to accumulator
OUT	Output content of accumulator
LOAD TOTAL	Copy content of TOTAL into accumulator
STORE TOTAL	Copy content of accumulator into TOTAL
ADD A	Add content of A to accumulator
SUBTRACT A	Subtract content of A from accumulator
MULTIPLY A	Multiply accumulator by content of A
DIVIDE A	Divide accumulator by content of A and truncate to an integer
JUMP L	Jump to the instruction labelled L
JIZERO NEXT	Jump to the instruction labelled NEXT if the content of the accumulator is zero; otherwise obey the next instruction in sequence
JINEG TOP	Jump to the instruction labelled TOP if the content of the accumulator is negative; otherwise obey the next instruction in sequence
LINE	Move to a new line
PRINT "PRIME"	Print PRIME on the current line if there is room, otherwise print the text on a new line
HALT	Stop execution of the program

Notes

Constants may be used with LOAD, ADD, SUBTRACT, MULTIPLY and DIVIDE, and must be signed integers in the range -8388608 to +8388607.

Identifiers and labels consist of up to six characters starting with a letter.

A comment may be written on the same line as a CESIL statement and is separated from it by a space.

Complete comment lines may be included in a program and such lines begin with (

Lines inserted between ** and *C header cards are treated as comments.

After the last CESIL instruction % is written on a new line.

If any data items are required, they are written on one or more lines with a space between each data item. All data items are integers.

The whole program is terminated with * on a new line.

e.g.
```
** UMBRIDGE SCHOOL
*C WILLIAM KILGOUR
SQUARE
LOOP    IN
        JINEG       END
        OUT
        STORE       NUMBER
        PRINT       " SQUARED IS"
        MULTIPLY    NUMBER
        OUT
        LINE
        JUMP        LOOP
END     HALT
%
5 72 111
67 -1
*
```


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