

# Lecture 8 - MARIA instructions

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## First - One Hot Example

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## Code From Homework 2

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This uses the extended instruction set specified on p257 (version 5) of the book.

Similar C Code:

```
function PrintString () {
    static char hw[] = { 'H','I','P','Q','R','S','T','U', '\0' };
    static char *X = &hw;
    while ( *X ) {
        Output ( *X );
        X++;
    }
}
```

## MARIA Code

```
L1,      LoadI   X
         Output
         Load     X
         Add      _1
         Store    X
         LoadI    X
         SkipGt0           / OnLine use Skipins 0x400 - same instruction just different
         Jump L1
         Halt
         ORG      20
X,        DEC     22           / Counter of how many characters to output.
_1,       DEC     1
hw,       HEX     48           / 'H' Your values (clue: 48 is not correct for homework-02!)
         HEX     49           / 'I'
         HEX     50           / 'P'
         HEX     51
         HEX     52
         HEX     53
         HEX     54
         HEX     55
         HEX     56
         HEX     0
```

