



HP41CX Program Listing

Title:	User Question and Answer Subroutine
Program Label:	LBL "QA" 30 bytes
Version:	2.1
Date:	09/01/1989

Description

This subroutine provides a standard method for a program to pause and prompt the user for a response to a set query. The string for the alpha display, the flag to be set and the button controlling the action are supplied by the host program in two lines of code. This data is used by the **QA** subroutine to prompt for a decision.

Using this subroutine saves a lot of code in host programs and makes it easy to insert user prompts whenever they are required. I also use it extensively in my own programs so you will probably need to load **QA** as well as some of my other solutions - but it's tiny.

Core Logic

The call to **QA** in the host program is inserted in the following way:

```
5.34          flag to set.key to match e.g. Flag 05, key 34 = M  
"METRIC/IMPERIAL?" alpha string with the prompt  
XEQ "QA"      Call to the subroutine
```

Upon executing **QA**, it disables the USER keyboard, clears the flag nominated by the host code and displays the content of the alpha register, also sounding the beep. It gets a key code as the users response to compare with the one supplied in the host code. If they match, the nominated flag is set and can be tested later to direct program execution. The original value in the X register is recalled.

It is wise to arrange it so that if a key other than **R/S** is not depressed, program execution based on the status of the flag in question "fails safe" if such a thing is possible.

Execution

QA is never run as a separate program but only as a subroutine.



Line	Instruction	Comments
1	LBL "QA"	
2	CF 27	Disables USER keyboard
3	ENTER^	
4	CF IND Y	Clears nominated flag
5	FRC	
6	100	
7	*	Extracts key code
8	AVIEW	Displays the string
9	STONE 6	
10	GETKEY	
11	X=Y?	
12	SF IND Z	Sets nominated flag if key code matches
13	RCL T	Recalls value of X Reg.
14	RTN	
15	END	

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