|  |  |
| --- | --- |
| TEA PRIMITIVE | SEMANTICS |
| Q: | |  |  | | --- | --- | | NAME | Quit | | PURPOSE | Quit the TEA program sometimes conditionally | | SYNTAX  & SEMANTICS | |  | | --- | | q: | | Quit the program if AI is currently empty. Returns Empty String | | q:REGEX | | Return the current AI and Quit the program iff AI matches REGEX | | q!: | | Unconditionally quit the TEA program returning the current AI | | q!:REGEX | | Return the current AI and Quit the program iff AI DOES NOT match REGEX | | q\*: | | Quit the program if THERE ARE NO VAULTs set (doesn’t quit if the DEFAULT VAULT was at least set) | | q\*:vREGEX | | Like q:REGEX, but using pattern stored in vault vREGEX | | q\*!: | | Quit the program if the DEFAULT VAULT is unset or is set to an empty value. | | q\*!:vREGEX | | Like q!:REGEX, but using pattern stored in vREGEX | |  | | NOTES | Like f:, q: helps to introduce conditional processing into  TEA programs, and with the **q:** and **q!:** command, it becomes easy to ensure our TEA Programs shall always halt and that it's possible to control when they should halt.  The following example program will avoid trying to run the expensive **p:** command on gibberish or unwanted externally obtained text:  w!: <https://pastebin.org/NIN.txt>  # expects alpha-numeric string with no spaces in it  Q:^.\*\s+.\*| v:vA | p\*:vA:-  The following example demonstrates how Q: can be useful. For example, this program will return a random number if the input contains a hyphen “-“ in it, otherwise will return the input with its content shuffled:  #i:"hi there"  i:"hi-there"  a!:|Q!:-|n:  IMPORTANT! Note that any TEA program whose first instruction is just “**q!:**” shall never do anything useful other than immediately quit/return.  For the cases where we use the other variants of q:, especially those that can cause the program to quit based on values in vaults, the following is a good example test:  i:{Hello World} | v: | q\*!: | a!: | v:vANA | q\*: | i!: | v: | y:vANA | q\*!: | n:  As is, the program shall return "Hello World" shuffled.  Note that only the final quit command (q\*!:) takes effect, because the default vault was set to an empty value with the instructions “i!: | v:” Otherwise (like if we change that bit to “i!:TEST | v:” would return a random number. |  |  | |