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| TEA PRIMITIVE | SEMANTICS |
| M: | |  |  | | --- | --- | | NAME | Mirror | | PURPOSE | Return the AI reflected about some axis | | SYNTAX  & SEMANTICS | |  | | --- | | m: | | Set IO as the lateral reflection of words in AI about the string’s origin | | m:STR | | Same as m:, but operating on STR instead of AI | | m!: | | Set IO as the lateral reflection of everything (characters) in AI about the string’s origin | | m!:STR | | Same as m!:, but operating on STR instead of AI | | m\*:vNAME | | Same as m:STR, but using the string stored in the vault with the name vNAME instead of AI. Without vNAME, operates on the default vault. | | m\*!:vNAME | | Same as m!:STR, but using the string stored in the vault with the name vNAME instead of AI. Without vNAME, operates on the default vault. | |  | | NOTES | The Mirror operations possible with the m: family of TEA commands create many possibilities of generating useful projections of strings---in particular, their lateral reflections. Sometimes, merely looking at the same word from a different angle than usual, could allow for different information, or messages to be read from the same baseline text, script or expression. The following example illustrates a lateral reflection of the Latin alphabet:  I!:{AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYyZz} | m!:  #(= zZyYxXwWvVuUtTsSrRqQpPoOnNmMlLkKjJiIhHgGfFeEdDcCbBaA)  Note that two modes of producing reflections are possible using the m-command space; reflection by words and reflection by characters. We can tell the difference using the following two examples, both operating on the same input string “a b cdef”. The first produces a reflection by word, the other by character:  i:a b cde|v:|m\*:  # (=cde b a, VAULTS:{'': 'a b cde'})  Returns “cde b a”, while  i:a b cde|v:|m\*!:  # (=edc b a, VAULTS:{'': 'a b cde'})  Returns “edc b a”. Below we have two non-trivial examples too.  i!:{AB}|v:v1|m!:|v:v2|v:vG:{ }|v:vP:-[|v:vS:]-|g\*!:vG:vP:v1:v2:vS #=-[ AB BA ]-  i!:{AB}|v:v1|m!:|v:v2|v:vG:{ }|v:vP:-[|v:vS:]-|g\*!:vG:vP:v1:v2:vS|m: #=]- BA AB -[ |  | |