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<krl> ::= "TELL" <percept> |
        "ASK" <str> <query>?

<percept> ::= <add_frame> |
              <remove_frame> |
              <update_frame>

<add_frame> ::= "ADD" ( "CLASS" | "INSTANCE" ) <str> "{" <str_list> "}" "[" <slot_list> "]"

<remove_frame> ::= "DELETE" <str>

<update_frame> ::= "UPDATE" <str> ( <update_type> |
                                     <update_name> |
                                     <update_super> |
                                     <update_slots> )

<update_type> ::= "TYPE" ( "CLASS" | "INSTANCE" )

<update_name> ::= "NAME" <str>

<update_super> ::= "SUPER" ( "ADD" | "REMOVE" ) <str>

<update_slots> ::= "UPATE" "SLOT" ( ( "ADD" | "REMOVE" | "ADD_VALUE" | "DELETE_VALUE"
) <str> ) |
                                     <str> ":" <str> )

<query> ::= ( "SUPERS" |
              "SUBS" |
              "SLOTS" |
              "TYPE" |
              "TYPEOF" <str> |
              "SLOT" <str> |
              "SUBBEDBY" <str> )

<str_list> ::= E | <ne_str_list>
<ne_str_list> ::= <str> "," <ne_str_list> | <str>

<slot_list> ::= E | <ne_slot_list>
<ne_slot_list> ::= <slot> "," <ne_slot_list> | <slot>

<slot> ::= <str> ":" <str>? ( "{" <str_list> "}" )?

<str> ::= ([A-Z] | [a-z] | [0-9] | "_" )+

```