Program Listing		Program Keycodes: 67 bytes in total
~~R		
{- Calculate current and voltage drop through multiple resistors in series		
Input: V(T) in X (stack) I = V/R		
R(i) in Rxn (registers)		
Output: I(T) in X		
V(i) in Rxn -}		
0	@@ R(T) initialized to 0.00 in X, V(T) pushed to Y	KC_0
ENTER	@@ R(T) pushed to Y, V(T) pushed to Z	KC_ENTER
FOR	@@ loop over rows 0 to 3	KCP_FOR
CNT_INIT 1 # 0	@@ Cnt1 = 0	KCP_CNT_INIT KC_1 KCP_NUMSEP KC_0
COUNT< 4	@@ loop as long as Cnt1 is < 4	KCP_CLESSN KC_4
FOR	@@ loop over columns 0 to 9	KCP_FOR
CNT_INIT 0 # 0	@@ Cnt0 = 0	KCP_CNT_INIT KC_0 KCP_NUMSEP KC_0
COUNT< 10	@@ loop as long as Cnt0 is < 10	KCP_CLESSN KC_1 KC_0
RCL CNTREF 1 CNTREF 0	@@ Pull R(i)(j)=R(Cnt1)(Cnt0) into X	KC_RCLREG KCP_CNT_REF KC_1 KCP_CNT_REF KC_0
IF X<>0		KCP_IF KCP_XNOT0
+	@@ iteratively calc R(T) += R(i,j)	KC_ADD
ELSE		KCP_ELSE
CYCLE	@@ silly example to show use of CYCLE instruction	KCP_CYCLE
ENDIF		KCP_ENDIF
NEXT 1	@@ next column	KCP_NEXT KC_1
NEXT 1	@@ next row	KCP_NEXT KC_1
{- R(T) now in X. Calculate I, duplicate it to Y, and use it to calc the V(i) -}		
/	@@ I in X, R(T) in Y	KC_DIV
ENTER	@@ I in X and Y, R(T) in Z	KC_ENTER
FOR	@@ loop over rows 0 to 3	KCP_FOR
CNT_INIT 1 # 0	@@ Cnt1 = 0	KCP_CNT_INIT KC_1 KCP_NUMSEP KC_0
COUNT< 4	@@ loop as long as Cnt1 is < 4	KCP_CLESSN KC_4
FOR	@@ loop over columns 0 to 9	KCP_FOR
CNT_INIT 0 # 0	@@ Cnt0 = 0	KCP_CNT_INIT KC_0 KCP_NUMSEP KC_0
COUNT< 10	@@ loop as long as Cnt0 is < 10	KCP_CLESSN KC_1 KC_0
RCL CNTREF 1 CNTREF 0	@@ Pull R(i)(j)=R(Cnt1)(Cnt0) into X	KC_RCLREG KCP_CNT_REF KC_1 KCP_CNT_REF KC_0
*	@@ Calc V(i) in X, I in Y, R(T) in Z	KC_MULT
STO CNTREF 1 CNTREF 0	@@ Store V(i) in Reg(i)(j)	KC_STOREG KCP_CNT_REF KC_1 KCP_CNT_REF KC_0
DROP	@@ Drop X: I will be in X, R(T) in Y	KC_DROPX
ENTER	@@ Duplicate I into Y, push R(T) to Z	KC_ENTER
NEXT 1	@@ next column	KCP_NEXT KC_1
NEXT 1	@@ next row	KCP_NEXT KC_1
DROP	@@ Drop duplicate I	KC_DROPX