

Convert Roman to Arabic

V (5)	L (50)	D (500)		Init.
I (1)	X (10)	C (100)	M (1000)	Convert

Convert Roman numerals to Arabic numerals

Converting Roman numerals with Arabic numerals

From originale ROM2ARAB.SOA of Enrico Vidale

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OP 23 ST* 03 * 1 0 YX RCL 00 = EE INV EE SUM 01 OP 30 OP 30 CP RCL 00 GE 1/X
RCL 01 ST* 02 OP 22 0 STO 01 8 STO 00 4 3 XT RCL 02 INV EQ 1/X

// ##### THE CHARACTER 10  AUTOMATICALLY ASSESS THE NUMBER #####
GTO PRT

// ##### INITIALIZATION #####
LBL E' CMS 4 1 STO 02 8 STO 00 9 STO 03 SBR COS R/S

// ##### PRINT THE ROMAN NUMBER AND START THE CALCULATION #####
LBL E RCL 01 ST* 02 GTO PRT

// ##### I
LBL A 2 4 RST

// ##### X
LBL B 4 4 RST

// ##### C
LBL C 1 5 RST

// ##### M
LBL D 3 0 RST

// ##### V
LBL A' 4 2 RST

// ##### L
LBL B' 2 7 RST

// ##### D
LBL C' 1 6 RST

// ##### SHOWS THE RESULT #####
LBL PRT 9 STO 08 OP 00 RCL 41 OP 02 RCL 42 OP 03 OP 05
LBL CLR OP 28 RC* 08 XT 2 4 INV EQ +
1 GTO LST
LBL + 4 4 INV EQ -
1 0 GTO LST
LBL - 1 5 INV EQ *
1 0 0 GTO LST
LBL * 3 0 INV EQ /
1 0 0 0 GTO LST
LBL / 4 2 INV EQ YX
5 GTO LST
LBL YX 2 7 INV EQ =
5 0 GTO LST
LBL = 5 0 0
LBL LST STO 04 1 0 XT RCL 08 INV EQ ADV
RCL 06 STO 09 RCL 04 STO 06 GTO SUM
LBL ADV RCL 04 XT RCL 05 GE OP
( RCL 09 + RCL 04 - RCL 05 ) STO 06 RCL 06 STO 09 GTO SUM
LBL OP RCL 06 STO 09 RCL 04 SUM 06
LBL SUM RCL 04 STO 05 RCL 08 XT RCL 03 INV EQ CLR
RCL 06 PRT ADV SBR SIN RCL 06 R/S
LBL 1/X RCL 01 ST* 02 RCL 41 OP 03 RCL 42 OP 04 OP 55 RTN

// ##### DISPLAY TITLE #####
LBL COS OP 59 2 STO 01 SBR SIN SBR TAN OP 05 SBR SIN ADV SBR TAN 0 STO 01 OP

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55 OP 00 RTN
LBL TAN OP 00 3 5 3 2 3 0 0 3 OP* 01 OP 21 1 3 3 5 1 3 1 4 0 0 OP* 01 RTN
LBL SIN 6 4 6 4 6 4 6 4 6 4 OP 01 OP 02 OP 03 OP 04 OP 05 RTN

L A B E L S	Adr	Branch.	Reg.	Instr.
048 10 E'	-	143 67 EQ	00	008 43 RCL
064 15 E	*	154 67 EQ		021 43 RCL
072 11 A	/	166 67 EQ		035 42 STO
077 12 B	+	133 67 EQ		055 42 STO
082 13 C	=	189 67 EQ		
087 14 D	1/X	023 77 GE	01	014 44 SUM
092 16 A'	1/X	043 67 EQ		025 43 RCL
097 17 B'	ADV	210 67 EQ		032 42 STO
102 18 C'	CLR	271 67 EQ		065 43 RCL
107 99 PRT	COS	060 71 SBR		284 43 RCL
124 25 CLR	LST	136 61 GTO		304 42 STO
139 85 +	LST	147 61 GTO		318 42 STO
150 75 -	LST	159 61 GTO		
162 65 *	LST	172 61 GTO	02	027 72 ST*
175 55 /	LST	182 61 GTO		040 43 RCL
185 45 YX	LST	193 61 GTO		052 42 STO
196 95 =	OP	229 77 GE		067 72 ST*
201 90 LST	PRT	045 61 GTO		286 72 ST*
223 98 ADV	PRT	069 61 GTO		
250 69 OP	SIN	277 71 SBR	03	002 72 ST*
260 44 SUM	SIN	306 71 SBR		058 42 STO
283 35 1/X	SIN	312 71 SBR		268 43 RCL
300 39 COS	SUM	220 61 GTO		
326 30 TAN	SUM	247 61 GTO	04	202 42 STO
355 38 SIN	TAN	308 71 SBR		216 43 RCL
	TAN	315 71 SBR		224 43 RCL
	YX	179 67 EQ		235 43 RCL
				255 43 RCL
				261 43 RCL
			05	227 43 RCL
				238 43 RCL
				263 42 STO
			06	212 43 RCL
				218 42 STO
				241 42 STO
				243 43 RCL
				251 43 RCL
				257 44 SUM
				273 43 RCL
				279 43 RCL
			08	109 42 STO
				127 73 RC*
				207 43 RCL
				265 43 RCL
			09	214 42 STO
				232 43 RCL
				245 42 STO
				253 42 STO

+-----+				
+-----+				
41	113	43	RCL	
	288	43	RCL	
+-----+				
42	117	43	RCL	
	292	43	RCL	
+-----+				