



# HP41CX Program Listing

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Title:	Value Added Tax extraction
Program Label:	LBL "VAT" / 55 bytes
Version:	2.0
Date:	10/08/1995

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## Description

This program extracts the value of 17.5% VAT from an invoice total. The program displays both the original invoice total and the VAT amount in a single string in the form:

Original value + tax e.g.

**125.00 + 21.88**

## Core Logic

Prog. uses the formula:

Divide the invoice total by  $\frac{\%}{100} + 1$  e.g.  $146.88 \div \frac{17.5}{100} + 1 = \frac{146.88}{1.175} = 125$

This is then subtracted from the invoice total to compute the tax (21.88)

Change the value encoded into line 10 of the program when the VAT rate changes.

## Execution

When you run the program, it prompts you as follows:

**TOTAL?**                      The total invoice value.

The result is displayed in the following form - Invoice value + tax e.g.

**125.00 + 21.88**

The program automatically loops back to the beginning ready for another value.

Just touch **R/S** for another run.



Line	Instruction	Comments
1	<b>LBL</b> "VAT"	
2	"10/8/95 V2"	
3	FIX 2	
4	"TOTAL?"	Enter the invoice total including tax
5	AVIEW	
6	<b>LBL</b> 01	
7	<b>STOP</b>	
8	ENTER^	
9	ENTER^	
10	1.175	Change this value according to the VAT rate currently in force
11	/	
12	STO T	
13	-	
14	CLA	
15	ARCL X	
16	APPEND: "+"	
17	ARCL T	
18	AVIEW	Display result as <b>INVOICE + TAX</b>
19	↑ <b>GTO</b> 01	Loop back to <b>LBL</b> 01 and stop to display result and get next value
20	<b>END</b>	

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