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DECUS NO.	8-494
TITLE	TRANSLATE ARABIC INTO ROMAN NUMERALS
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SOURCE LANGUAGE	4K FORTRAN

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TRANSLATE ARABIC INTO ROMAN NUMERALS

DECUS Program Library Write-up

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ABSTRACT

This program translates Arabic numbers into Roman numerals. The number must be greater than 0 and less than 4000, otherwise the program will print "ENTER ARABIC NUMBER >0 + < 4000" and start over.

The user enters an Arabic number followed by a terminator, such as SPACE. The program types the Roman numeral followed by a carriage return and line feed. The program is then ready to accept the next Arabic number.

```
C; TRANSLATE ARABIC INTO ROMAN NUMERALS
21;FORMAT (E)
22;FORMAT ("M")
23;FORMAT ("D")
24;FORMAT ("C")
25;FORMAT ("L")
26;FORMAT ("X")
27;FORMAT ("V")
28;FORMAT ("I")
29;FORMAT (/)
33;FORMAT (/,"ENTER ARABIC NUMBER >0 & <4000",/)
34;TYPE 33
31;ACCEPT 21,E
    IF (E) 34,34,35
35;IF (E-4000.) 30,34,34
30;IF (E-1000.) 1,2,2
3; I=I-100
    J=J-1
    TYPE 24
    GO TO 4
5; I=I-400
    J=J-4
    TYPE 24
    TYPE 23
    GO TO 4
6; I=I-500
    J=J-5
    TYPE 23
    GO TO 4
7; I=I-900
    J=J-9
    TYPE 24
    TYPE 22
    GO TO 4
9; I=I-10
    J=J-1
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TYPE 26
CO TO 8
10; I=I-40
J=J-4
TYPE 26
TYPE 25
GO TO 8
11; I=I-50
J=J-5
TYPE 25
CO TO 8
12; I=I-90
J=J-9
TYPE 26
TYPE 24
CO TO 8
14; I=I-1
TYPE 28
CO TO 13
15; I=I-4
TYPE 28
TYPE 27
CO TO 13
16; I=I-5
TYPE 27
CO TO 13
17; I=I-9
TYPE 28
TYPE 26
GO TO 13
2; E=E-1000.
TYPE 22
CO TO 30
1; I=E
J=I/100
4; CO TO (3,3,3,5,6,6,6,6,7), J
J=I/10
8; CO TO (9,9,9,10,11,11,11,11,12), J
13; CO TO (14,14,14,15,16,16,16,16,17), I
TYPE 29
CO TO 31
END
```