

UNIVERSITY OF ILLINOIS
DIGITAL COMPUTER

LIBRARY ROUTINE N 4 - 131

Input a Sequence of Integers (SADOI or DOI)

17 words

6 ms. per character

PURPOSE

To read a sequence of integers from the tape and store them successively.

ACCURACY

Exact

TEMPORARY STORAGE

0, 1, 2

METHOD OF USE

p	40	n
	50	p
p+1	26	--

Each integer must be punched as a sign followed by k decimal digits, where $0 \leq k \leq 12$, and the last integer is followed by N. The integers are stored successively, starting at location n.

RT: 11/25/59

DATE February 15, 1954

CODED BY R. F. King

APPROVED BY J. P. Nash

ns

LOCATION	ORDER		NOTES	PAGE 1 N 4
	00K (N4)			
0	K5 F			
	42 3L		Plant link address	
1	10 20F		Plant first store order address.	
	42 12L			
2	81 4F		Read first character.	
	L0 16L	From 14'		
3	40 F		Store and test for N, J, F, L.	
	32 (p+1)F	By 0'		
4	41 1F		Set N(1) = 0	
	81 4F	From 9	Read and store next character	
5	40 2F			
	L0 15L		Test for non-decimal character.	
6	32 9L			
	L4 15L			
7	50 1F		Form absolute value	
	74 15L			
8	00 39F		of integer and store in 1	
	40 1F			
9	22 4L			
	F5 F	From 6		
10	36 12L			
	L5 1F			
11	22 12L		Adjust sign and store.	
	0F F			
12	L1 1F	From 10		
	40 (n+i)F	By 1', 13'		
13	F5 12L	From 11		
	42 12L		Step address in store order.	
14	L5 2F			
	22 2L		Form next integer	
15	00 F			
	00 10F		$10 \cdot 2^{-39}$	
16	00 F			
	00 12F		$12 \cdot 2^{-39}$	