

CONSOLE OPERATION1 CODE ORDERS

SD	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

INPUT S = 0

N	T	F	S	C
---	---	---	---	---

OUTPUT S = 1

N	T	F	S	C
---	---	---	---	---

DISC S = 2

N		F	S	C
---	--	---	---	---

FILM S = 3

N	T	F	S	C
---	---	---	---	---

FILM S = 4

N	T	F	S	C
		F	S	C

OVERALL MACHINE CONTROL S = 7

LEAPS PROGRAMME SHEET

SECTOR

PROGRAMME

SHEET

Held	Obeyed	Orders			Notes
0		11		6	
1		12		7	
2		13		8	
3		14		9	
4		15		10	
5		0		11	
6		1		12	
7		2		13	
8		3		14	
9		4		15	
10		5		0	
11		6		1	
12		7		2	
13		8		3	
14		9		4	
15		10		5	
0		11		6	
1		12		7	
2		13		8	
3		14		9	
4		15		10	
5		0		11	
6		1		12	
7		2		13	
8		3		14	
9		4		15	
10		5		0	
11		6		1	
12		7		2	
13		8		3	
14		9		4	
15		10		5	

Pay Item

Code and input column pattern

VOLUNTARY DEDUCTIONS (EXCLUDING WCDPS)

Commence a new contributor
or new rate of contribution

- POM

129

POTJ

145

Other deductions
(enter whole rate)

233

item

s

d

Cancel an existing contributor - POM

161

POTJ

177

Other deductions

34

item

Temporary change in contribution

this week only (enter amount

of variation from normal rate) - Increase

169

item

s

d

- Decrease

89

item

s

d

ITEM NUMBERS OF COMMON DEDUCTIONS (See LEAPS MANUAL F III for complete list)

Civil Service Sanatorium Society	43	Life Insurance: normal deduction	38
Civil Service Sports Council (and LPR Sports and Social Club)	48	Life Insurance: April deduction	39
Hospital Savings Association	50	Post Office Insurance Society	40
PO Fellowship of Remembrance	46	Rowland Hill Benevolent Fund (Subscriptions or repayments)	42

METHOD OF PAYMENT

Postal Draft: Permanent

193

Postal Draft this week only

1

Cash: Permanent

65

Cash this week only

33

LEAVE PAY IN ADVANCE

162

Number
of weeks

TRANSFER WITHIN LEAPS

3

Gaining
Pay Group
NumberGaining
Pay Point
Number

SUPPLEMENTARY PAY RECORD (form LP III)

Request for print out

17

Assumptions.Group 1 (Vests)

<u>Price</u>	<u>Quantity</u>	<u>Total</u>
11 ^{0d}	12	<u>$= 11/-$</u>

Group 2 (Pants)

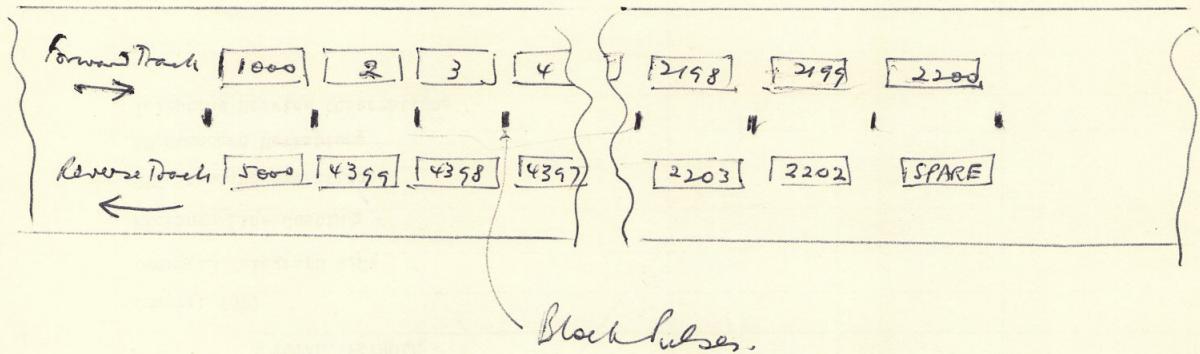
<u>Price</u>	<u>Quantity</u>	<u>Total</u>
14/-	8	<u>$= 5-12.-$</u>

Grand total £ 6 : 3 ... -

Storage

<u>Item</u>	<u>Pence</u>
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256	132
257	1,344
259	1,476



Prog Starts 128

Score Total amount = 256 - 319 323 = 1 (1)

NATIONAL-ELLIOTT 405 PROGRAMME SHEET

32000 temporary score Constant 323 = 1260 (F5.5 -)

LABEL:

SHEET NO.: 27 (E/F
sign)

	Address	ORDERS				NOTES
		F'	A / B	F'	A / B	
0	128	120 (10)	4 0	8	128	(Read discsector (10) to 192-205)
1	129	10	12	100	7	Clear D.
2	130	107	13 271	103	8	Test parity.
3	131	104	14	10	191 320	Clear 1AS1
4	132	103	15	104	10	Reset leading blanks & find first FS
5	133	6	0 191 320	10	250	Output FS
6	134	11	256	2	12 190	Input first 3 characters.
7	135	9	137	10	13 189 323	Put 1AR to 2.
8	136	11	3 3 0 3		14	Store first 3 ch temporarily in 250.
9			4	10	15	Input second set of ch(2).
10			5		0	Put them to 2.
11			6		1	
12	137	4	7 0	10	2 191 320	
13	138	4	14 [=17]	10	1	Clear D. # 192
14	139	101	1	107	4	Set Count
15	140	3	10 189 323	9	5	Put Count in TAG-1
0		12	11		6	Test friend of job file 1 AS + Open Block
1			12		7	Ignore FS if next ch eq 0
2	141	110	27	8	142	Test if ch is an open bracket.
3	142	11	14 187 323	113	9	negative add 27(F5), if Acc contains
4	143	11	0 7		10	bracket, Acc must be -ve (-10)
5	144		0	114	5	
6	145	111	1 2		12	Output 5 integers
7			2	11	13 186 323	Output 2 spaces
8	146	113	—	116	14	Put 1000000 into Acc (shillings)
9	147	111	2	11	15 185 326	Reset K registers for shillings
10	148	113	5	116	2	Output 2 shilling characters
11	149	110	29	110	1	Output 2 spaces
12	150	8	?		0	Put 1000000 pence in Acc.
13	151	8	151		1	Reset K registers for pence.
14		9			2	Output 5 ch for pence
15		10			3	Output CR
					4	Output LF
						Dynamite stop

56

in field.

NATIONAL-ELLIOTT 405 PROGRAMME SHEET

LABEL :

SHEET No.:

		ORDERS				NOTES
	Address	F'	A / B	F'	A / B	
0		11	12 13 14	6		
1		12		7		
2		13	X	8		2-12
3		14		9		
4		15	N	10	X	2-15
5		0		11		
6		1		12	X	
7		2		13		2-28
8		3		14		
9		4		15		
10		5		0		
11		6		1		
12		7		2		
13		8		3		
14		9		4		
15		10		5		
0		11		6		
1		12		7		
2		13		8		
3		14		9		
4		15		10		
5		0		11		
6		1		12		
7		2		13		
8		3		14		
9		4		15		
10		5		0		
11		6		1		
12		7		2		
13		8		3		
14		9		4		
15		10		5		

Contact

2-12

2-15

2-28

2-31

NATIONAL-ELLIOTT 405 PROGRAMME SHEET

LABEL : _____ SHEET No.: _____

ORDERS							NOTES
	Address	F'	A / B	F'	A / B		
Parity	?	138	10	11	172	104	
	1	139	5	12	15	8	140
	2	140	105	13		8	142
	3	141	8	14	141	9	
	4	142	6	15	172	10	
Stop	5		0			11	
	6		1			12	
	7		2			13	
	8		3			14	
B3	9	147	10	4	3	15	148
Op Stop	10	148	12	5	133	0	
	11	149	8	6	1	1	
	12	150	4	7	0	2	176
Sel SDA mode	13	151	10	256	1	8	152
w/ SD Port	14			8		4	
	15			10		5	
SD found	0	163	11	11	256	1	9
SD port to	1			12		7	
168 off -	2			13		8	
end	3			14		9	
(DS)	4			15		10	
	5			0		11	
	6			1		12	
	7			2		13	
	8			3		14	
	9			4		15	
	10			5		0	
	11			6		1	
	12			7		2	
	13			8		3	
	14			9		4	
	15			10		5	

LEAPS PROGRAMME SHEET

SECTOR	
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PROGRAMME	
	Teletype Input

SHEET	

		Orders		Notes		Acc	IAS1	Acc	IAS2	Acc	IAS1
Held	Obeyed										
0	320	11	11 [-1]	6		Set count [-1] in Acc		-1	0	0	
1		12		7 321		Set to next order pair					
2	321	107	13	8		Add blank to Acc (320)		-1	0	0	
3		14		9 321		Keep adding blanks until blanks exhausted. When blank function goes to 322					
4		15		10		now reaches space (28). i.e. deduct 28 from Acc		-1	0	0	
5	322	2	0 [27]	11				-28	0	0	
6		1		9 12 -		Error					
7	323	3	2 [07]	13		Negate Acc and add 0		0	0	0	
8		3		9 14 -		Error					
9	324	11	4 [-3]	15		Put minus 3 in Acc		0	0	0	
10		5		10 0 2		Put Acc (25) in IAS2 as word count		0	25	0	
11	325	11	[-5]	1		Put minus 5 in Acc for character count		-5	25	0	
12		7		10 2 1		Put Acc (-5) in IAS1 as character count		0	25	0	-5
13	326	5	8 5	3		Left shifts Acc 5 times		0	25	0	-5
14		9		107 4		Input first characters to Acc		10	25	0	-5
15	327	12	10 326	5		So back to previous order if IAS1 is non zero. If it is zero, cycle word loop until 5 is exhausted		25	0		
0		11		6							
1		12		10 7 1/2		Put first character from Acc to Acc 13 (Blank 2)		0	7	10	
2	328	11	2	8							
3		14	0' 9 [1 2-2]	10		Adds 1 2-2 to Acc		12	25		
4	329	10	15 2	10		Put content of IAS2 (25) in Acc		25	0	10	
5		0		9 11 325		So back to 325 of Acc is negative. As soon as Acc is positive go to 320					
6		1		12							
7	330	8	2	13		EXIT.					
8		3		14							
9		4		15							
10		5		0							
11		6		1							
12		7		2							
13		8		3							
14		9		4							
15		10		5							

LEAPS PROGRAMME SHEET

Constant held in say (133)

SECTOR

PROGRAMME B Line

SHEET

Transfer 64 numbers one at a time. (64-127 to 320-3P3).

Held	Obeyed	Orders			Notes
Acc 64 128 64 128 64 128 64 128 64 128 64 128	11	11 64		6	Copy first ten (64) to Acc.
1		12		7 320	Put Acc (64) into 320.
2	(129)	11 128		8	Copy 128 to Acc. (Delete stored value?)
3		14	0 133	12-27	Set count of 1 (Held in 133)
4	(130)	10 128		10	Put 128 back into 128.
5		0	11 134		Copy 134 into Acc (-63-12)
6	(131)	0 133		12	Put Count (12-12) in Acc
7		2	10 134		Put 134 in back to 134
8	(132)	9 128		14	Take 128 (beginning) as next order when Acc is negative.
9		4	8 132		Go to 132 next.
10	(133)	1 2-12	1 2-28		Constant
11		6		1	
12	134	- 63 272		2	Constant
13		8		3	
14		9		4	
15		10		5	1A53 256
0	Acc 64 128	11 133	134 320		0 0
1		128 -1	133 64		
2	128	13 27		8	
3	-63	14		9	256 = Total Price
4	-1	15		10	Find at Start
5	-64	0		11	
6	71 11	1 3		12	Put Constant 9/1A53 in Acc (N1C)
7		2	0 256		Add 256 to Acc (N1C)
8	72 10	3 256		14	Put 256 to Acc
9		4	8 73		Go to next order at 73
10	73 11	5 3		0	Put 1A53 in Acc
11		6	10 257/1		Put
12		7		2	
13		8		3	
14		9		4	
15		10		5	