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STORF. Computer Module for Use in a Mathematics

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Laboratory Setting.
Regional genter for Pre-Coll. Mathematics, Denver,

Colo.

SPONS AGENCY

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ABSTRACT

This is one of a series of computer modules designed for use by secondary studients. This module contains a simulation of a cash register, student in tructions and worksheets, and the STORE program and related data programs and subroutines. The module will require one fifty-minute chass period rer student, spent at the computer. Also included in the module are worksheets, a statement of objectives, and teaching suggestions. (MK)

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TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) "

COMPUTER MODULE FOR USE

IN A

MATHEMATICS LABORATORY SETTING

STORE

by

Terry Garyett Irwin Hoffman Evert Karman Joseph Pagone

A Publication of

University of Denver Mathematics Laboratory Regional Center for Pre-College Mathematics

Dr. Ruth I. Hoffman, Director

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(a) University of Denver Mathematics Laboratory 1973

The module may be used in the following ways.

- 1. It may be used by individuals or pairs of students.
- 2. Individual students who have successfully completed the module may assist other students, especially in handling the computer portions of the module. Thus, this module can be used concurrently with other individual projects.

MATERIALS

Contained in the module:

- 1. Student instructions and worksheets.
- 2. The STORE program, along with related data programs and subroutines.

Teacher must provide:

- 1. Computer access
- 2. Occasional updates of the program data

TIME SCHEDULE

It is expected that this module will require one fifty-minute class period per student, spent at the computer. Manual filling-out of the worksheets could be done as homework.



OBJECTIVES

.The student will come into contact with realistic foodstore prices.



- .The student will learn some of the procedures of a cash register clerk, such as making change, totalling cash register amounts, etc.
- .The student will learn how sales tax for food and non-food items is computed.
- The student will learn some of the procedures of a food store inventory clerk, in keeping track of products and ordering.
- The student will be introduced to the concept of meeting a budget.
 - .The student will exhibit arithmetic skills in disquised drill.



This module is actually a simulation of a cash register. The STORE program does essentially all the things which a cash register does, totalling sales, indicating change, etc. In addition, the program does some things most cash registers don't do: it figures sales tax, keeps track of inventory, etc. There are cash registers, in some of the major department stores, which have already taken over inventory responsibilities; this is probably a trend of the future.

EVALUATION PROCEDURE

No posttest should be required for this module.

The student will turn in his completed worksheets, along with his computer output. He will previously have checked these himself for descrepancies.

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4

The student may be penalized for serious errors in his own calculations, but should not be penalized for errors in using the computer program. If necessary, he should be required to rerun the program. Errors of one cent or so should be regarded as insignificant since they may be attributable to computer round off methods.

OUTLINE

- A. The cards #1 6 and student worksheets #6a 6e are virtually self-explanatory.
- B. Teaching Suggestions
 - 1. Alert students will want to know why such items as Kleenex appear under both food and non-food headings. This information is authentic. The category of an item in a grocery store is determined by which department of the store orders and stocks the item.
 - 2. The program is written in the Fortran computer language, and format requirements will cause the most trouble in running the program. Fortran is designed for IBM card input, and every space is meaningful. It is essential that a number be in the right space. For this reason, the student is instructed to input item numbers in a four-space field: 3 is 0003 or blank-blank-blank-three; 24 is 0024. If he doesn't do this results will be extremely in error, or even overflow the program, resulting in meaningless output. When an item is purchased by the pound, the number of pounds should be indicated as

follows: Item number (four-space field), two spaces, and the decimal equivalent of the number of pounds, always including a decimal point. This is explained in the worksheet instructions, and it must be followed exactly.

(It should be made clear to the students that they need only input, for the program, the item number of the product they are buying and, in the case of products bought by the pound, the number of pounds, according to the format given above.)

.This whole area is one in which students who have completed the module can be very helpful to those that follow.

3. In the interest of verisimilitude, the data in the program should be periodically updated, reflecting changes in actual prices. Students could secure revised data as fieldwork; and, optionally, for the last worksheet, students could be sent to an actual supermarket, to see how much they could get for a specified, amount of money.

The method of updating the data on the computer will vary from system to system, but on most systems it should present no difficulty.

4. The Student Worksheet #6e may be done in conjunction with a field trip. This unit will acquaint you with the operation of a grocery store. As a buyer, you will be exposed to purchasing, to buying items which are priced by the pound, and to the difference between the sales tax on food and non-food items. You will see how a sales clerk operates a cash register. You will be exposed to the problems of an inventory clerk - ordering and stocking. And you will be given a sample exercise in budgeting your grocery expenses.

7

1

Store

The next pages contain a list of the items available at "COMPUTER. DISCOUNT FOODS". They are divided into four categories: Groceries, Meats, Produce, and Non-Food Items. The sales tax, in Denver, on food items is 3% and on non-foods, it is 6%. Meats and Produce are sold by the pound. (Produce, basically, is fresh fruits and vegetables.)

The information on the next pages is divided into six columns. The first column contains the item number of each commodity. The second indicates whether the item is a grocery, meat, produce, or a non-food item. The third column is the name of the product; the fourth column is its price. The last two columns show the maximum and minimum amounts of each item kept in stock. Thus, for example, potato chips: 90 bags are the most kept in stock; when the number of bags drops below 15, it is time to order some more. If there were only 14 bags left, the stock clerk would order 90-14=76 bags -- that is, enough to bring the total back to 90.

11

CIRÓ	CERIES		THE	SALES	TAX	IS	3%
ĮTM	# DPT	ITEM	PRIC	, . !E:	٠,		
4.	GR	Campbell's Soup		eac,h		15	E
5	GR	Wonder Bread		each		18	
6	CER.	Sintons 2% Qt.		each		49	.)
. 7	ĠR	Caravelle		each		94	
8	GR	Snails Escargot - 12	•	each		47	
9	GR	Canada Dry Gin-ale	_	each	•	797	
10	GR	Milk	. •	each		90	
11	GR	Potato Chips		each		90	
12	CiR: 4	Cookies		'each		9 0	
13	GR '	Cheddar Cheese		each		90	
14	GR	Crackers		each		90	
15	CER [®]	Welch's Jam		each	••	. 9 0	
16	GR	Del Monte Corn		each		90	
17	GR	Sigman's Bologna		each		90	
18	CR	Hostess Twinkies		each		90	-
19	GR	6-Bottle Deposit		each		89	-
20	GR -	Bounty	.43	each		98	15
21	CER	Sugan		each		99	15
22	CER	Flour		each		99	
23	CER.	Graham Crackers	.65	each		99	15
24	CER	Cookies	.42	each	•	99	15
25	GR	Fig Bars	.37	each		99,	15
26.		Charmin	•43	each		98	15
27	GR'	Cake Mix	.30	each	•	98	15
28	CIR.	Frosting '	.41	each		99	15
29	CER.	Corn Oil	.96	each		99	15
30		Pears	.22	each		99	
31	CIR.	Mr. Clean	• 96	each		99	15
32 [:]	GR	•	•79	each		99	15
33	GR.	Kunners Ketchup	.27	each		99	15
.34	CIR.	Betty Crkr. Frsting	.41	each		99	15

MEA'	rs	·		. THE SALES TA	X IS 3%
35	MT	Hamburger `		.90 /lb.	90 15
36	MP	Sirloin Steaks		1.89 /1b.	90 15
37	MT	N.Y. Steak	1	2.39 /1b.	99 15
38	MT	Top Sirloin	. `	2.59 /lb.	99 15
39	MT	Sirloin		1.69 /lb.	99 15
40	MT	Rilet		2.98 / 1b.	99 15
41	MT	T-bone		1.89 /lb.	99 15
42	MT	Rd. Steak '		1.49 /lb	99. 15
43		Rib Eye	+ +4	2.35 /lb.	99 15
44	MT	· Cube Steak		1.49 / 1b.	99 15
45		Chicken		.59 /1b.	89 15
46.		Turkey		.95 /1b.	99 15
47	· MT	Ham Hocks		.89 /1b.	99 15
48	MT	Shank Ham		.89 /1b.	99 15
49		Ham ·		.9 4 /1b.	99 15
50	MT	Rib Roast	•	1.49 /lb.	99 15
51	MT	Sausage		q.89 /1b.	99 15
52	MT	Liver		1.29 / 1b.	99 15
.53	MT.	Bacon	¥	1.39 / 1b.	99 15
54	MT	Rump Roast		~1.19 /1b.	99 15
55	MT	Pearch		1.10 /lb.	99 15
56	MT	Lamb Chop		2.19 /lb.	99 15
57 ·		Spare Rib	*	1.49 / 1b.	99 15
58	MT	Veal Cutlet		2.25 /lb.	99 15
59	MT	Kidneys		1.19 /1b.	99 15
60	MT	Hot Dogs		.98 /lb.	99 · 15

	PRODUCE		4	ጥሀው	CAT TRO	M1 A 3P	Ta	od.	
	P	· ·	`	· Ing	SALES	TAX	15	3%	•
	61 PR	Potatoes .		.17	/lb.		90	15	
	62 PR	Lettuce		.39	/lb.		90	15	
	63 PR	Apples		.25	/lb.		90	15	
	64 PR	Apples	•	.23	/lb.		20	50	
	65 PR	Oranges		.29	/lb.		91		
	66 PR	Grapes	•		/lb.,		90		
	67 PR	Watermelon			/lb.	*	25	15 20	
	68 PR	Canteloupe		.25	/lb.		90	15	-
	69 PR	Lettuce .			/lb.		90		
	70 PR	Cabbage			/lb.		25	15	
	71 ' 'PR	Corn			/lb.			15	
	72 PR	Radish			/1b.	•	25	25	
	73 PR	Green Bean			/1b.		25	. 5	
	74 PR	Mushrooms			/1b.	,	90	15	
	75 PR	Peaches	•		/1b.		90	15	
	76 PR	Carrots			/1b.		90	15	
	77 PR	Artichokes			/1b. /1b.	•	90	15	
	78 PR	Avocodoes	1		/16. /1b.		90	15	
	79 PR	Bannanas					90	15	
	80 PR	Cucumber		.27	/lb. /lb.		30°	15	
	81 PR	Tomato	:0	•33			25	5	Í
	82 PR	Potato	. 🖈		/lb.	`	25	. 25	
	83 PR	Onions	Ψ,		/lb.		25	5	
	84 PR	Celery			/lb.		90	15	
	85 PR	Pears		•34			90	15	
	86 PR	Plums		•33	/lb.		90	15	
	87 • PR	Grapefruit	1	.29	/lb.		90	2 0	•
	8 8 PR	Squash			/lb.		25	25	
	39 PR	Pumpkin		. 24	/lb.		90	15	
	90 PR	Okra		.04			90	15	
- '	,	OM a		•59 /	/ TD•		90	15	
		•							
	•								
		,)
. 1	VON-FOODS	•		नमा ।	SALES	ጥለ જ	TC /	A	,
		·		11111	MILLIAN,	IAA	ro (مرد	
ç	91 NF	Tide Detergent		1.23	each		39	15	
	92 NF	Cascade			each		99		
	93 NF	Joy Dish Whg. Dtg.			each	-		15	
	NF	Ajax Detergent			each	42	99 20	14	
	95 NF	Downy Softener		1.57			99 20	15	
	6 NF	Clorox Bleach	,		each		99	15	<u></u>
	77 NF	Tide Detergnt		~			99 ·		٠ ل ـ
	98 NG	Paper Towels	•		each		39	15	Ţ
	9 NF	Kleenex			each		39	15	-
10		Playboy Mag	•	-	each		38	15	
10	. 14L	rrahnoh hak		1.00	each	8	36	15 '	

To buy from COMPUTER DISCOUNT FOODS, you must input the item number of each purchase. As the store might stock up to 9,999 items, four digits are allowed for item numbers; this must be allowed for when you record a purchase. Thus, item No. 4, Campbell's Soup, must be inputted as OOO4; No. 25, sugar, must be inputted as OOO4; No. 25, sugar, must be inputted as OOO5 (blanks may be substituted for leading zeroes).

If an item is priced by the pound, you must also input the number of pounds you buy. This number must be a decimal number, and it must include the decimal point. Space two liter the item number, and then put in the number of pounds. Thus, if you bought 1 1/2 pounds of hamburger, you would input 0041, two spaces, 1.5. If you bought one pound of cabbage, item No. 76, you would input 0076, space two, 1.0.

If you do all this properly, COMPUTER will record each item and its price, and total your shopping list.

There are three special commands to input instead of grocery item numbers:

0003 will total any particular purchase.

0002 indicates a refund (bottle returns, coupons, etc.)

0001 closes the cash register for the day.

When your shopping list is through, always input 0003 before 0001.

The cash register in the STORE program starts with a thousand dollars in it. It makes change automatically. If you are a clerk, you need to know how much money is left in the register at the end of the day. (No provision is made in the program for armed robbery.)

You, shop at COMPUTER and buy the following:

2 cans Campbell's soup 1 package Hostess Twin 1-1/4 pounds hamburger 1 pounds oranges 1 package Tide deterge 1-1/2 pounds onions 1 box Kleenex Separate this list into food and non-ffod it	kdes nt	out the tab	les below:
FOOD; ITEMS	,	•	in.
· · · · · · · · · · · · · · · · · · ·	UNIT PRICE	AMOUNT	TOTAL PRICE
•	· · · · · · · · · · · · · · · · · · ·	,	
	y		
	-	-	•
	•		
ITEM NO. ITEM NAME	S UNIT PRICE	AMOUNT	TOTAL PRICE
Total Price of all Food Items: Sales Tax on Food Items (at 3%): Total for all Non-Food Items: Sales Tax for Non-Food (at (6%) Total Amount Paid: You give the clerk a five-dollar bill. How me get back?		do you	
Check your answers on the STORE Program.	•		. `

Make up a shopping list of your own of from five to ten items. Use the space below, and separate foods from non-foods.

	roops			
NO.	Name of Item	Unit Price	Amount	Total Price
	<u> </u>	90	,	
				Anthon from the control of the contr
	•	,		4
,			1	
			>	10 mg - 10 mg
		, •		•

			:	and the state of t
В				
•	* NON BOODS		`	
<i>i</i> , -	NON-FOODS		•	
	•			
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				· · · · · · · · · · · · · · · · · · ·
	1			T
·			· · · · · · · · · · · · · · · · · · ·	
•	~		•	
	What is the total cost of your food	items?		-
	What is the total cost of non-food i	tems?		•
	What is the total amount of sales ta			:
•	. (for food and non-food			
*	What is the total amount you pay?			•
	Determine what size bill you give th	e clerk:	•	
	What is your change?			
•	Check your answers on the STORE prog	ram.		

You are a sales clerk at COMPUTER DISCOUNT FOODS. You start with \$1000.00 \in your cash register. After ringing up the shopping lists on Student Worksheets # 1 and 2, you close the register for the day. How much maney is there now in the register?

In addition to the shopping lists on Student Worksheets # 1 and 2, you have one more customer before you close your cash register for the day. This customer returns two six-pack cartons of bottles, and his bottle deposit is regunded (the deposit is \$.05 per bottle). How much money is there in the register?

Use the next page to make up three short shopping lists. In the second column, indicate whether each item is Grocery, Meat, Produce or Non-Food. If you ring up all three of these sales, how much money will you have in your cash register? (Remember that the sales tax on Non-Foods is 6%, while on everything else it is 3%.)

Use the STORE Program to check your answers. At the end of the program, the computer will indicate what items the store needs to reorder, and how many of each of these items are left. Using the last two columns of the original stock lists, indicate how many of each of these items need to be ordered.

Number .	(Item	Amount Needed
· .	V · c _r .	
- ta-		
	• /	
		*
-		
· · · · · · · · · · · · · · · · · · ·	`	
	,	
		

You are a sales clerk at COMPUTER DISCOUNT FOODS. You start with \$1000.00 in your cash register. After ringing up the shopping lists on Student Worksheets # 1 and 2, you close the register for the day. How much money is there now in the register?

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Number		Item	, <i>,</i> ,	•	Amoun	t Needed	•
	•	•		•	1	•	
	<i></i>		•			•	
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4.1	•	List 1	•	,		•
No.	Department	Name	3 *	Unit Price	Amt.	Price
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	, <u>,</u>	· ·	 ,	•		
		,		· ——	, -	·
			- `			<u></u>
	:	b		•	-`	
	• •		 `			
* 		Total asl			,	
•						
		Total amo	unt sper	nt	- :	
•	,	List 2				
	•		•	•	•	
			-	` ` `		
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****						.
				· · · · · · · · · · · · · · · · · · ·	_	·
		Total amou	unt , speri	t	- '	· •
	•	List. 3				
•			•	-	•	
		·	 `			
						
				*		•
	-	•				
,	•	· · · · · · · · · · · · · · · · · · ·		•		
 .						, ———
	•	, <u> </u>	· · · · ·			-
	Ñ	Total sale	s tax		_ 1	. *
	*			t		

You have \$20.00 to spend at COMPUTER DISCOUNT FOODS, to take care of a family of three. Make out a shopping list, trying to spend wisely, and stretching the twenty dollars as far as possible. (Don't forget the sales tax!)

•	r.	QODS			
ITEM NO.	NAME	UNIT PRI	CE , AMOU	NT TOTAL P	RICE
AND I OF HIMBER AUTHOR HAND, HAND	,	•			
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الهجيد المحمد ا		-		, <u></u>	-
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•		•	t of foods		
		Sales tax	on foods 🔽		
•	NON-	FOODS			•
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	•		on non-food		,
₹	-	Total amo		-	
•	e-				
1	•	Onange ir	om \$20.00°		•

Use the STORE program to check your answers.



The following 3 programs were written by Terry Garyet of George Washington High School, Denver, Colorado. These programs are suitable to be run on the Univac Fortran system and will probably need modification for other systems.

BASICAD	PSOO3A - STOREDATA ,			~
DHSI C+D	PSOUSM+STOREDATA	•000	^	^
8	2		0	0
3	, <mark>\$</mark>	•000		0
4	4CAMPBELL 5 SOUP			0
5	SVONDER BREAD	-831	6	5
6	SWONDER BREAD	-601	13	5
7	7CARAVELLE	•731	45	9
8		-091		20
9	8SNATLS ESCARGOT-12			80
10	9CANADA DRY GIN-ALE 10MILK	•691	191	200
- 11	11POTATO CHIPS			15
12	12COOKIES	• 49 1	88	15
13	13CHEDDAR CHEESE	•771		15
N 1.	1.400.400.000	•651		15
15		•771		15
. 16	15VELCH'S JAM 16DEL MONTE CORN	• 69 1		15
	•	- 291		15
1/3	1751GMAN'S BOLOGNA		89	15
19	18HOSTESS TWINKIES	•161		15
	196-BOTTLE DEPOSIT	-301		15
80	OLSUGAR	• 431		15
5/3 S (1	21SUGAR	• 59 1		15
23	22FLOUR	• 431	99	15
•	23GRAHAM CRACKERS	-651	99	15
24	94COOKIES	-481	99	
25	85FIG BARS	• 371	. 98	15
2 W	ACCHARMIN (•431	98	15
	27CAKE MIX	-301		1-5
√28	28FROSTING	-411	98	15
30	29CORN OIL	-961	99	15
31	30PEARS	221	97	15
\	31MR. CLEAN	-961	99	15
32	32BLU-BOY	.791	99	15
$\frac{33}{24}$	33KUNNERS KETCHUP	-271	98	15
34	34BETTY CREE FREING		99	.15
35	35HANBURGER	-908		15
36 37	3681 RLQIN STEAKS	1.892		
. 38	37N.Y. STEAK	2.398	99	15
39		2.592	99	15
40	39SIRLOIM	7-698	99	15
	AOFILET	8.988	96	15
41	41T-BONE	1-592	98	15
48	48RD. STEAK	1.498	'99	15
. 43		2.352	99	15
44	44CUBE STEAK	1-498	99	15
45	45CHICKEN	-592	87	15
46	46TURKEY	-952	98	15
47	47HAM HOCKS	-892	99	15
48	48SHANK HAM	- 592	7	15

Store

Computer Sheet # 2

49	49HAM	.988	96	15
50	50RIA ROAST	1.492	93	15
51	51SÄŲSAGĖ	1.692	99	15
52	52L I V ER	1.292	99	15
53	53BACON -	1.392	96	15
54	54RUMP ROAST	1.198	97	15
55	55PEARCH	1-102	97	15
56	56LAND CHOP	8-198	95	15
57	57SPARE RIB	1.498	97	15
58	58VEAL CUTLEY	2-252	99	15
59	59ki dwrys	1-198	99	15
60	60HOT DOGS	.982	95	15
61	61POTATOES	• 173	90	15
68	62LETTUCE	• 393	90	15
63	63APPLES	- 853	88	15
64	64APPLES	• 233	0	50
65	650RANGES	. 293	5 9	15
66	66GRAPES	• 493	88	15
67	67VATERMELON	•493	84	80
68	68CANTELOUPE	• 253	90	15
69	69LETTUCE	•333	90	15
70	7 OCABBAGE	183	25	15
7.1	71CORN	-103	28	25
72	7 2 RADI 5 H	-143	25	5
73	73GREEN BEAN	• 693	90	15
74	7 AMUSHROOMS	.993	90	15
7'5	75PEACHES	• 433	90	¥5\
76	76CARROTS	.213	90	15
1,7	77 ARTI CHOKES	• 303	90	15
78	78AUCCODOKS	-863	90	15
79	79BANNANAS	· 273	90	15
80	8 OCU CUMBER	• 333	25	5
81	81TOMATO	• 893	25	25
82	BPPOTATO	.313	24	5
83	830NIONS .	•863	86	15
84	84CELERY	• 343	90	15
85	85PEARS	•333	90	15
86	B6PLUMS)	- 293	90	80
87	87 GRAPEFRUIT	-313	25	25
88	88 SQUASH	- 843	90	15
89	89PUMPKIN	•043	90	15
90	900KRA	-593	90	15
91	91TIDE DETERMENT	1.234	56	15
9 5	9 BCASCADE	. 494	•	15
93		'G - ~ 534	98	14
94	94AJAX DETERBENT	694	99	15
95	95DOWNY SOFTENER	1.574	••	15
96	96CLOROX BLEACH	.354	95	15
97	97TIDE DETERGNT	.494	89'	15
98	98PAPER TOWELS	. 394	86	15
99	99KI.EENEX	334	81	15
00	100PLAYBOY MAG	1.004	5 2	15

exqt dps003a.store eadd dps003a.storedata 2



```
BASIC+SMM . STORE/SOURCE
             0ASG.T TEMP. F14/// K28
     8
             OBREPT PRINTS/TEMP
     3
             0ASG,T 9,F14///188
             0ASG,T 10,F44///186
             ●ASM, I , ADDX
              AXRS
             $(0)
     8
             PF FDRM 18,6,18
     9
                     'ecopy, I 9., DPS003A. STOREDATA'
             CSF1
    10
             CSF2 'OBRKPT PRINTS/TEMP'
             CSF3 'OBRKPT PRINTS
    12
             CSF4
                     'OADD TEMP.
    13
             $(1)
    14
             ADD+ LA AO, (3, CSF2)
    15
              ER CSF$
    16
              P$RINT
                        (PF 1,5,CSF1)
    17
              LA AO, (3, CSF3)
    18
              ER CSFS
    10
               LA
                   AQ, (2, CSF4)
   80
               ER
                    CSFS
   21
              J 1.X11
   22.
                END
            CASM, E BASIC+DPS003A. DATE/GORALNIK, DATE
 1, 23
            •ASM E BASIC+DPS003A. DECOCT/BORALNIK, DECOCT
   24
   25
            ORFOR, IS STORE, STORE
                   INTEGER DEPT(1000), ID(1000, 3), INV(1000), CUST, REORD(100
   86
     O), REFNO, TA
   27
                  CG(4), ACCNT
   88
                   REAL PRICE(1000), NET, TOTLK(150), CHRG(10)
   29
                   CALL DATE(INO, IDY, IYR)
   30
                   I R=0
   31
                  ·TAG(1) = 'GR'
   32
                   TAG(2) = MT'
   33
                   TAG(3) = 'PR'
   34
                   TAG (4) = 'MF
   35
   36
                   CUST-0
  · 37
                   SALE=0
   38
                   TTAX=0
   39
                  TOME-D
   40
                   CPNTTL=0
   41
                   REFUND-0
   42
                   REPWO-0
   43
                   XX6-1000.
                   DO 10 I=1,100
                  MEAD(5, 15) (ID(1, J), J=1, 3), PRICE(1), DEPT(1), INV(1), REOR
             10
     D(I)
   46
                  PORMAT(3X,3A6,F4.8,I1,2I4)
  47
                  PORMATCHNO, UNITAC DISCOUNT FOODS 1/1H , DEPT ITEM 1 6X,
     'ITEM', ME, 'P
```

ERIC

xiv 21

```
49
                CRICE')
  50
            20
                  READ(5,25)ITEM, VT
  51
                 FORMAT(14, 4X, F5.2)
  58
                 12-DEPT(ITEM)
  53
                 IF(ITEM.EG.1)QO TO 100
  54
                 PRC=PRICE(ITEM)
  55
                 IF(ITEM-EQ.3)GO TO 80
  56
                 IF(IR)35,35,50
  57
            30
                 TOTLC=0
  58
                 TTLNF=0
  59
                 GO TO 5
  60
            35
                 IF(ITEM-2)37,36,37
  61
            36
                 I R= 1
  65
                 GO TO 56
  63
            37
                 IF(INV(ITEM))1000,1000,41
  64
            1000 WRITE(6, 1001)
            1001 FORMAT(1H , SORRY, WE ARE OUT OF')
  65
  66
                 GO TO 39
  67
            41.
                 IF(DEPT(ITEM).NE.4)GO TO 38
 68
                 TTLNF=TTLNF+PRC
 69
                 GO TO 42'
                 IF(DEPT(ITEM)-1)45,45,46
 70
            38 .
 71
           46
                 PRC=PRC+WT
 72
                 IF(DEPT(ITEM)-3)45,44,45
 73
                 INV(ITEM) = INV(ITEM) - WT
 74
                 TOTLC=TOTLC+PRC
 75
                 GO TO 39
 76
                 TOTLC=TOTLC+PRC
           45
 77
           42
                 INV(ITEM)=INV(ITEM)-1
                 WRITE(6,40) TAG(12), ITEM, (ID(ITEM, J), J=1,3), PRO
 78
           39
 79
                 FORMAT(1H ,A3,8X,13,2X,3A6,5X,'$',F7.2)
           40
 80
                 GO TO 20
 81
           5Q
                 IF(DEPT(ITEM).NE.4)GO TO 51
 88
                 TTLNF=TTLNF-PRC
 83
                 GO TO 54
 84
           51
                 IF(DEPT(ITEM)-1)54,54,53
 85
           53
                 PRC=PRICE(ITEM)+WT
 86
           54
                 TOTLC=TOTLC-PPC
 87
                 REFUND=REFUND+I'RC
 88
                 REFNO=REFNO+1
 89
                 I R=0
 90
                GO TO 39
 91
           56
                 WRITE(6,55)
                FORMAT(1H , 'THE FOLLOWING ITEM IS REFUNDED.')
 92
           55
 93
 94
           80
                 TAX=(TTLNF+.06)+(TOTLC+.03)
 95
                 TT4X=TTAX+TAX
 96
                WRITE(6,85)TAX
 97
           85
                FORMAT(1H ,8X, 'TAX', 10%, '$', 3X, F7.2)
 98
                TOTLC=TOTLC+TAX+TTLNF
 99
                SALE=SALE+TOTLC
100
                WRITE(6,90)TOTLC
101
           90
                TORNAI(1H ,8X, 'TOTAL',8X, '5', Fd. 2)
102
           551
                WRITE(6,521)
103
           521
                FORMAT( AMT TENDERED? )
104
                READ(5,91) AMTND, COUPON, ACCNT
```

```
105
                  IF(AMTND.LT.TOTALC)GO TO 551
 106
            Ŷl
                  FORMAT(F7.8, 1X, F3.8, 1X, 18)
 107
                  CINTIL - CPUTTL + COUPON
 108
                  IF(ACCNT)93,93.48
 109
            92
                  AMIND-TOTLC
 110
                  CHRE (ACCNT) = CHRG CHCCN ( )+TOTLC
4111
            93
                  CHMC=ANTND-(TOTLC-COUPON)
 112
                  TCNG=TCWG+CHMG
 113
                 WRITE(6,95) AMTND, COUPON, CHNG, IMO, 1 DY, IYR
 114
                  FORMATCIN . SX. AMT TENDERED $1.3X. F7.2./IH . 8X. COUPON.
            95
    ',7X,'$',3X,
 115
                CF5.8,/1H .EX,'CHANGE ',6X,'$',3X,F7.8/1H .7X,12,2('/*,
    12),/1H ,8X,
 116
                C'THANK YOU'///)
 117
                 CUST=CUST+1
118
                 TOTLK(CUST) = TOTLC
 119
                 60 TO 30 -
120
            100
                 WRITE(6, 101)
121
                 FORMAT(HI) TIO, 'CLOSING TOTALS'//IH , 'THE FOLLOWING IT
           101
        SHOULD B
122
                CE REORDERED'/IH , 'ITEM', 8x, 'PRODUCT', 5x, 'NO IN STOCK')
TS3
                 DO 105 I=4,100
184
                 IF(INV(I)-REORD(I))102,102,105
125
          NOE
                 WRITE(6, 103) I, (ID(I, J), J=1, 3), INV(I)
126
           105
127
                 FORMAT(1H , 14, 9X, 3A6, 4X, 14)
           103
128
                NET-SALE-TTAX
129
                REG=REG+(SALE-CPNTTL-TCNG)
130
                WRITE 6, 110) CUST, SALE, TTAX, NET, REFNO, REFUND, CPNTTL, REG
   · (I, TOTLK(I)
131
               C_{\bullet}I = 15 CUST)
           110 FORMAT(1H1, 'TOTALS FOR TODAY'/IH , 'CUSTOMERS ', 14/1H
   'GROSS S',F7
133
              C.2/1H ,'TAXES S', F7.2/1H ,'NET', 3X,'S', F7.2, /1H , [3, 1X
```

```
REFUNDS TO
                                                   .F5.2/1H , CASH IN BEGI
               C. #8, 8//1H , CUST TOTAL , 150(/1H , 13, 1X, F5.8))
135
136
                DO 120 I=1,100
137
                WRITE(9, 185)1, (ID(I, J), J=1,3), PRICE(I), DEPT(I), INV(I),
   REORD(I)
138 - ...
          125
                FORMAT(13,3A6,F4.2,11,214)
139
                DO 130 I=1.10
140
         130
                WRITE(10,182)1, CHRS(1)
141
                FORMAT(12,F6.2)
           132
142
                END FILE 9
143
                END FILE 10
144
                CALL ADD
145
                END
146
          MAP, INO , STORE
147
           IN ADD
148
           IN STORE
149
           IN DATE
150
           IN DECOCT
151
          OBRKPT PRINTS
          OXOT STORE
152
153
          OADD BASIC+DPS003A.STOREDATA
```