

How did you write the order in question (1c) in code?

You might have written
 $J + T + S + R + R$

A shorter way is

PRICE	ENTRÉE	DRINK
SANDWICH	95¢	65¢
ROLL	75¢	70¢
DIXIE CUP	25¢	25¢
COFFEE	35¢	35¢
TEA	40¢	35¢
JUICE	50¢	45¢

An order of 25 pens could be written as

T + T + T + T + T + T + T + T + T + T + T + T + T + T + T

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The second method saves time.

Example 1

Order

One roll, six sandwiches, two teas,
four coffees and one juice.

Price
Code

$$R = 65 + 2T + 4C + J$$

Eat-in Cost

Eat-in Cost	=	75	+	(6 x 95)	+	(2 x 40)	+	(4 x 50)	+	70
	-	75	+	570	+	80	+	200	+	70
	-									
	-	995p								
	-	£9.95								

Take-Home = $70 \times (6 \times 80) = (2 \times 25) = (4 \times 45) = 60$

Total Assets = \$6,000 - (\$2,000) = \$4,000

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$$\text{Cost} = 70 + 480 + 70 + 180 + 60$$

= 850

= \$0.00

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2. Calculate the Eat-In and the Take-Away cost of the following three orders:

 - Five coffees, three teas and four biscuits.
 - Three juices, two teas, four rolls and one sandwich.
 - $7S + R + 5T + J$