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Simplifying expressions

by adding and subtracting like terms (At The Restaurant)

- **The Headteacher decided, to take 10 top Science students** to the local fast-food restaurant.
- **He takes orders** before going to the till.
- **No one knows the exact prices yet**, so **you will use the price codes instead.**
- The restaurant host charity event and some students donate extra money.
- **The orders are written in words for you**, re-write it **using the price codes**
- **Simplify the order** by adding up/ subtracting the price codes (collect like terms).

beef burger, add **apple pie**, add **cheese burger**, add **1**, add **orange juice**, add **kebab**, add **milkshake**, add **2**, take away **kebab**, add **cheese burger**, add **1**,add **milkshake**, add **orange juice**, add **kebab**, add **apple pie**, add **double cheese burger**, take away **apple pie** add **beef burger**, **take away milkshake**, add **kebab**, take away **beef burger**, add **kebab**, add **3**, add **orange juice**, add **2**, add **beef burger**, add **apple pie**, take away **cheese burger** add **double cheese burger**, add **1**, add **kebab**, add **milkshake**, add **double cheese burger**, add **1**, take away **apple pie**, add **2**, take away **beef burger**,

Simplified order in price codes (in the alphabetical order):

MAIN	
item	price code
beef burger	**b**
cheese burger	**c**
fish burger	**f**
hot wings	**h**
kebab	**k**
popcorn chicken	**p**
Quarter-pounder	**q**
veggie burger	**v**
extra large pizza	**x**
zucchini bake	**z**

DESERT	
item	price code
apple pie	**a**
donut	**d**
ice cream	**i**
Jaffa cake	**j**
upside down cake	**u**
yogurt	**y**

DRINK	
item	price code
espresso	**e**
late	**l**
milkshake	**m**
orange juice	**o**
tea	**t**
water	**w**

SIDES	
item	price code
gravy	**g**
nachos	**n**
egg fried rice	**r**
side salad	**s**

REMEMBER!
The burgers' sizes are different so does the codes and prices!

b
c

$b^2 = b \times b$
$c^2 = c \times c$

$b^3 = b \times b \times b$
$c^3 = c \times c \times c$

SPECIALS	
item	price code
double beef burger	b^2
triple cheese burger	b^3
double cheese burger	c^2
triple cheese burger	c^3

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ANSWERS

beef burger, add **apple pie**, add **cheese burger**, add 1, add **orange juice**, add **kebab**, add **milkshake**, add 2, take away **kebab**, add **cheese burger**, add 1,add **milkshake**, add **orange juice**, add **kebab**, add **apple pie**, add **double cheese burger**, take away **apple pie** add **beef burger**, take away **milkshake**, add **kebab**, take away **beef burger**, add **kebab**, add 3, add **orange juice**, add 2, add **beef burger**, add **apple pie**, take away **cheese burger** add **double cheese burger**, add 1, add **kebab**, add **milkshake**, add **double cheese burger**, add 1, take away **apple pie**, add 2, take away **beef burger**,

$b+a+c+1+o+k+m+2-k+c+1+m+o+k+a+c^2-a+b-m+k-b+k+3$

$+o+2+b+a-c+c^2+1+k+m+c^2+1-a+2-b=$

Simplified order in price codes (in the alphabetical order):

$a+b+c+2c^2+4k+2m+13$

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