

Q4

Flowchart

Start

Input money, PO, PA, PG, PT, QQ, QA, QG, QT, cost, change

$$\text{cost} = (\text{PO} * \text{QQ}) + (\text{PA} * \text{QA}) + (\text{PG} * \text{QG}) + (\text{PT} * \text{QT})$$

Not enough  
Money

Yes

Cost > money

No

change = money - cost

"Cost" and "change"

Stop

Pseudocode

Start

Input money, cost, change, PO, PA, PG, PT, QQ, QA, QG, QT

Process

$$\text{cost} = (\text{PO} * \text{QQ}) + (\text{PA} * \text{QA}) + (\text{PG} * \text{QG}) + (\text{PT} * \text{QT})$$

If cost > money

then

"Not enough money"

else

change = cost - money

Output

cost and change

Stop



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Q4

IPO

Input	Process	Output
money, cost, change PO, PA, PG, PT QO, QA, QG, QT	$\text{cost} = (\text{PO} * \text{QO}) + (\text{PA} * \text{QA})$ $+ (\text{PG} * \text{QG}) + (\text{PT} * \text{QT})$ <p>If cost &gt; money Else "Not enough money" Else change = money - cost cost and more change</p>	<p>"cost"</p> <p>"change"</p> <p>or</p> <p>"Not enough money"</p>

Explanation

Calculate cost of Mr Bhola's groceries using simple addition and multiplication in the program. If cost of groceries is greater than amount of money Mr Bhola has then tell him he doesnot have enough money. If he has enough money tell him the cost and return his change.