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Sequential Processing Algorithm

1. Write on a piece of paper these 8 labels: “item\_1”, “item\_2”, “item\_3”, “item\_4”, “item\_5”, “item\_6”, “item\_7”, “item\_8”
2. Ask the cashier the price of item\_1, write it under the label “item\_1”.
3. Ask the cashier the price of item\_2, write it under the label “item\_2”.
4. Write the new label on the paper: “sum”.
5. Add the numbers under the labels “item\_1” and “item\_2” – write the result under the label “sum”.
6. Ask the cashier the price of item\_3, write it under the label “item\_3”
7. Add the numbers under the labels “sum” and “item\_3”, write the result under the label “sum”, scratching out what I wrote there previously.
8. Ask the cashier the price of item\_4, write it under the label “item\_4”.
9. Add the numbers under the labels “sum” and “item\_4”, write the result under the label “sum”, scratching out what I wrote there previously.
10. Ask the cashier the price of item\_5, write it under the label “item\_5”.
11. Add the numbers under the labels “sum” and “item\_5”, write the result under the label “sum”, scratching out what I wrote there previously.
12. Ask the cashier the price of item\_6, write it under the label “item\_6”.
13. Add the numbers under the labels “sum” and “item\_6”, write the result under the label “sum”, scratching out what I wrote there previously.
14. Ask the cashier the price of item\_7, write it under the label “item\_7”.
15. Add the numbers under the labels “sum” and “item\_7”, write the result under the label “sum”, scratching out what I wrote there previously.
16. Ask the cashier the price of item\_8, write it under the label “item\_8”.
17. Add the numbers under the labels “sum” and “item\_8”, write the result under the label “sum”, scratching out what I wrote there previously.
18. Ask the cashier the sales tax of the state, write it under the label “sales\_tax\_multiplier”.
19. Multiply the numbers under the labels “sum” and “sales\_tax\_multiplier”, write the result under the label “sales\_tax”.
20. Add the numbers under the labels “sum” and “sales\_tax”, write the result under the label “sum”, scratching out what I wrote there previously.
21. Round the number under the label “sum” to the nearest penny, scratching out what I wrote there previously.
22. Write the new label on the paper “ Your total is “ and write a 0 under it.
23. Add the numbers under the labels “sum” and “Your total is”, write the result under the label “Your total is”, scratching out what I wrote there previously.