

# Coffee Trader



The Magic Beans coffee company ships coffee via mail order.

They would like to optimize the number of boxes in order to provide the cheapest cost (FIRST) and the minimal number of boxes (SECOND) for their customers.

A large bag of coffee costs \$5.25.

A large box fits **20 bags**, a medium fits **10 bags** and a small fits **5 bags**.

Shipping large boxes costs \$2, medium \$1 and small \$.50

Allow the user to enter how many bags of coffee to buy and then tell them the number of each boxes and total cost.

## Coffee Trader Test Data

1. 39 bags  
1 L, 1 M, 2 Sm or 2 L: Remember to minimize boxes when prices equal
2. 35 bags  
1 L, 1 M, 1 Sm or 2 L: Choose the cheaper cost
3. 9 bags  
1 L or 1 M or 2 Sm : Fewer boxes, take the Medium
4. 19 bags  
1 L or 2M or 1 M and 2 Sm: Fewer boxes