

Task 2

[9]

An algorithm is required to calculate the discount a customer earns when buying multiple books from a shop.

A discount of 10% can be earned. The discount is awarded if the total price of books purchased is over £50 or the mean price of books purchased is more than £10 per book.

Using a basic text editor, write an algorithm, which:

- inputs the number of books being purchased
- inputs the price of each book being purchased
- outputs the total price of the books
- outputs the mean price of all books (*total price ÷ number of books*)
- outputs if a discount has been earned
- outputs the amount of discount

A partial example of the **input** and output of the algorithm is shown below.

Input number of books being purchased: **3**

Input price of book in £: **15**

Input price of book in £: **9**

Input price of book in £: **12**

Total Price: £ 36.00

Mean Price: £ 12.00

Discount Earned.

Amount of discount: £ 3.60

Save your completed algorithm as FinalDiscount.txt