Algorithm

Q.1.Find a student average mark given mark1 and mark2.

Ans-

Step1: Start

Step2: Declare variables mark1 and mark2 and average mark

Step3: Read values mark1 and mark2

Step4: Add mark1 and mark2 and divide by 2 and assign the result to average.

Average= mark1+mark2/2

Step5: Display average mark

Step6: Stop.

2. Calculate the total fine charged by library for late return books. The charge is 0.20 INR for 1day.

Ans-

Step1: Start

Step2: Declare variables 1st date, last date, charges for 1 day, no. of days, total charge.

Step3: Read values 1st date, last date and charge for 1 day.

Step4: No. of days= last date _ first date

Total charges= no. of days * charge for 1 day

Step5: Display total fine charged.

Step6: Stop

3. You had bought a nice shirt which cost Rs 29.90 with 15% discount. Count the net price for the shirt.

Ans-

Step1: Start

Step2: Declare variables cost of shirt, discount cost

Step3: Read values discounted, net price

Step4: discounted cost= 15%*29.90=4.485

Net price= Cost _ discounted cost

=29.90 _ 4.485

=25.41

Step5: Net price

Step6: Stop.

4. Find the smallest number among three different numbers.

Step1: Start

Step2: Declare variables a, b, c

Step3: Read variables a, b, c

Step4: if a<b

If a<c

Display a is the smallest number.

Else

Display c is the smallest number.

Else

If b<c

Display b is the smallest number.

Else

Display c is the smallest numer.

Step6: Stop.

5. Find the roots of a quadratic equation $ax^2+bx+c=0$.

Ans-

Step1: Start

Step2: Declare variables a, b, c

Step3: Read a, b, c

Step4: d= square root of b^2 _ 4ac

Step5: $\mathbf{x}_1$= (_b + d)/2a

X_2= (_b _ d)/2a

Step6: Display x_1, x_2

Step7: Stop.

FLOW CHART

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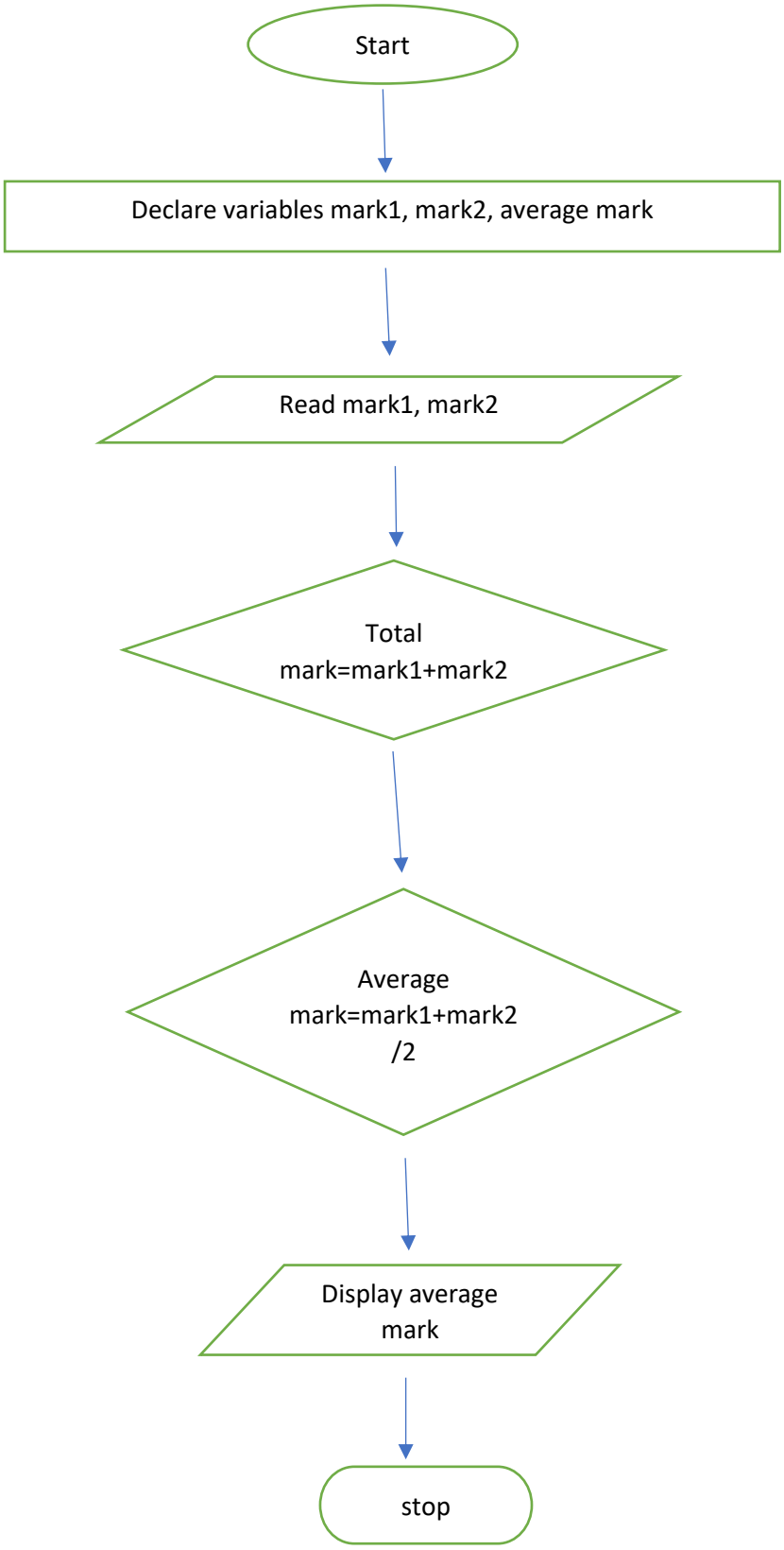

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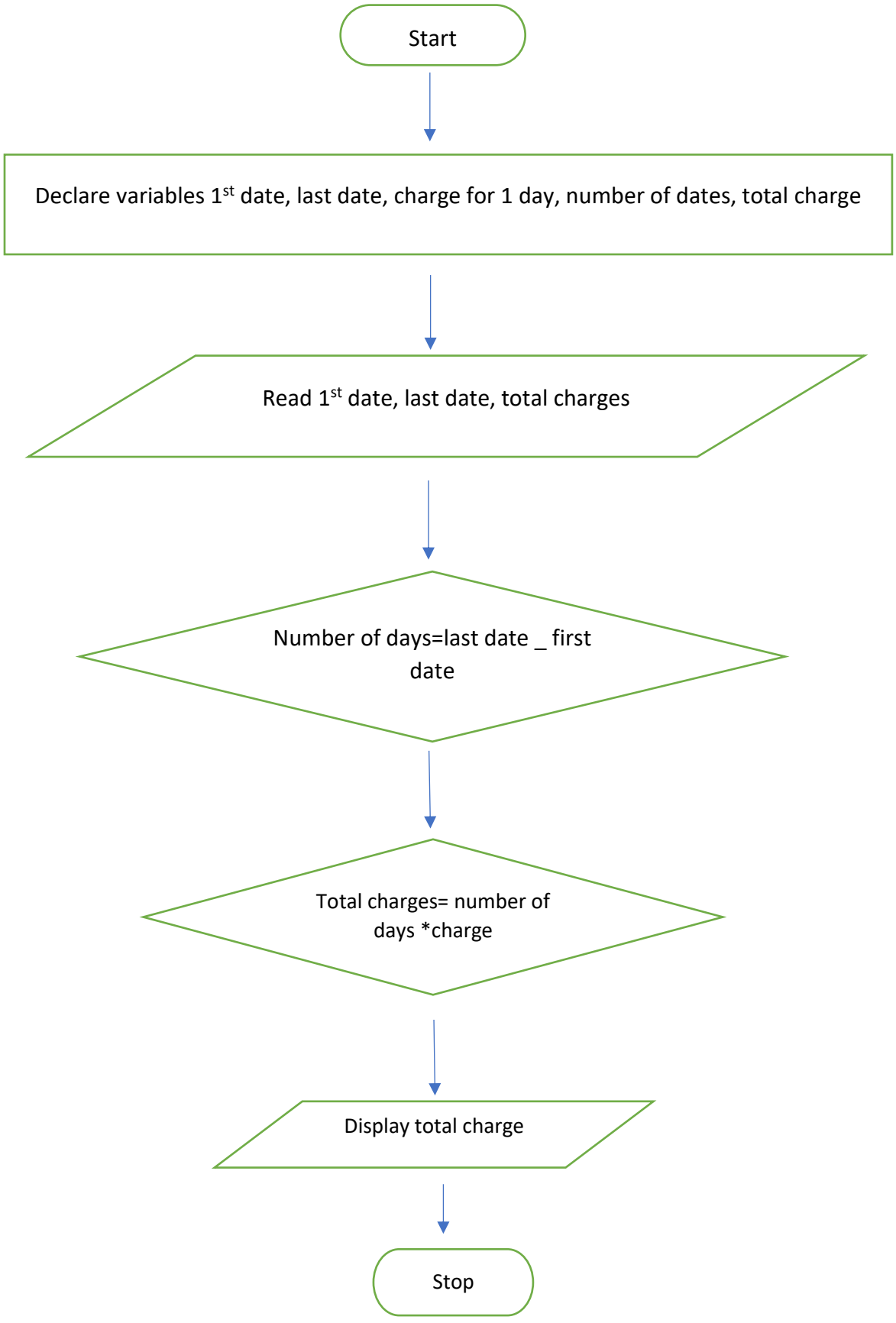

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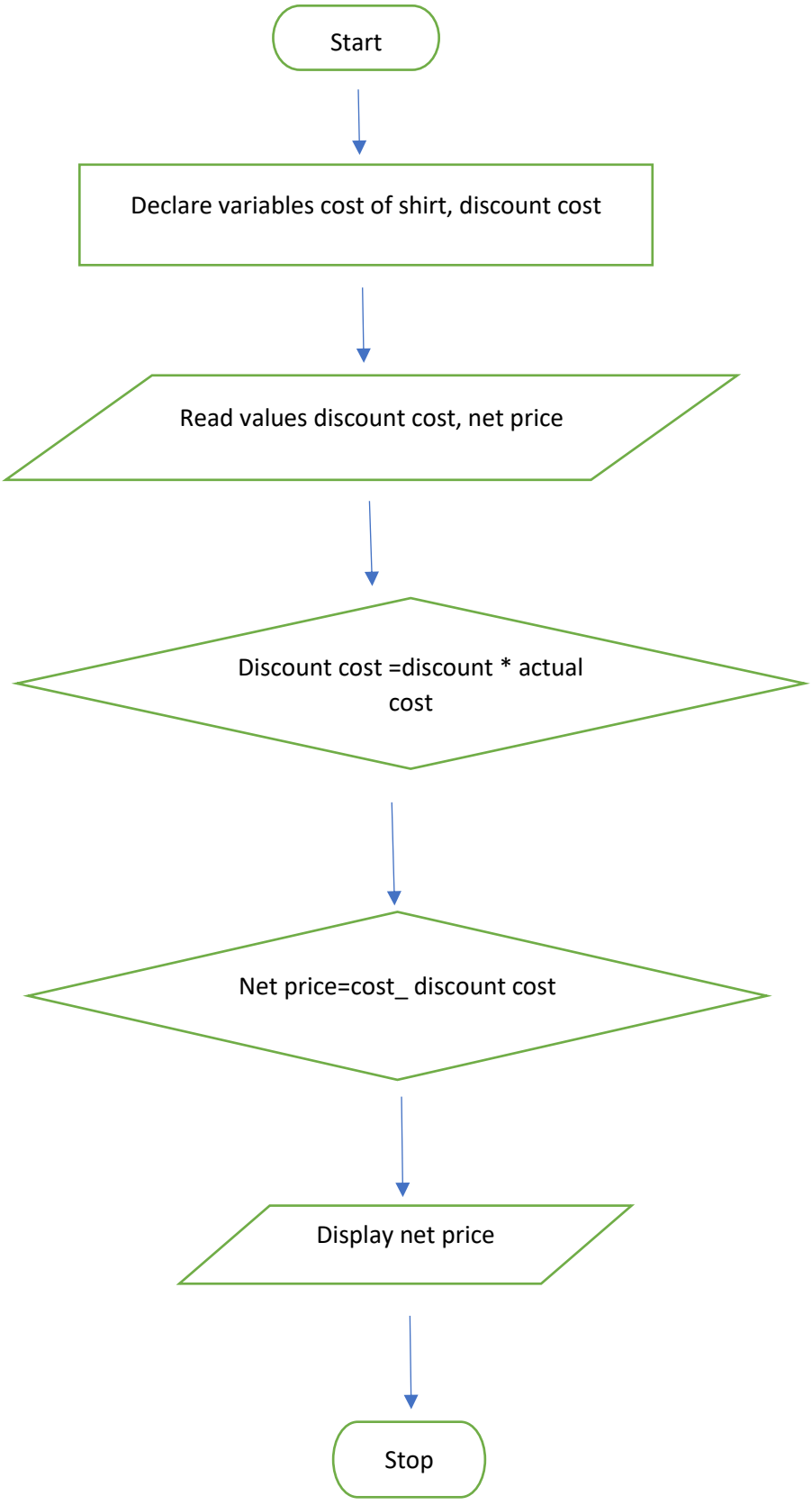

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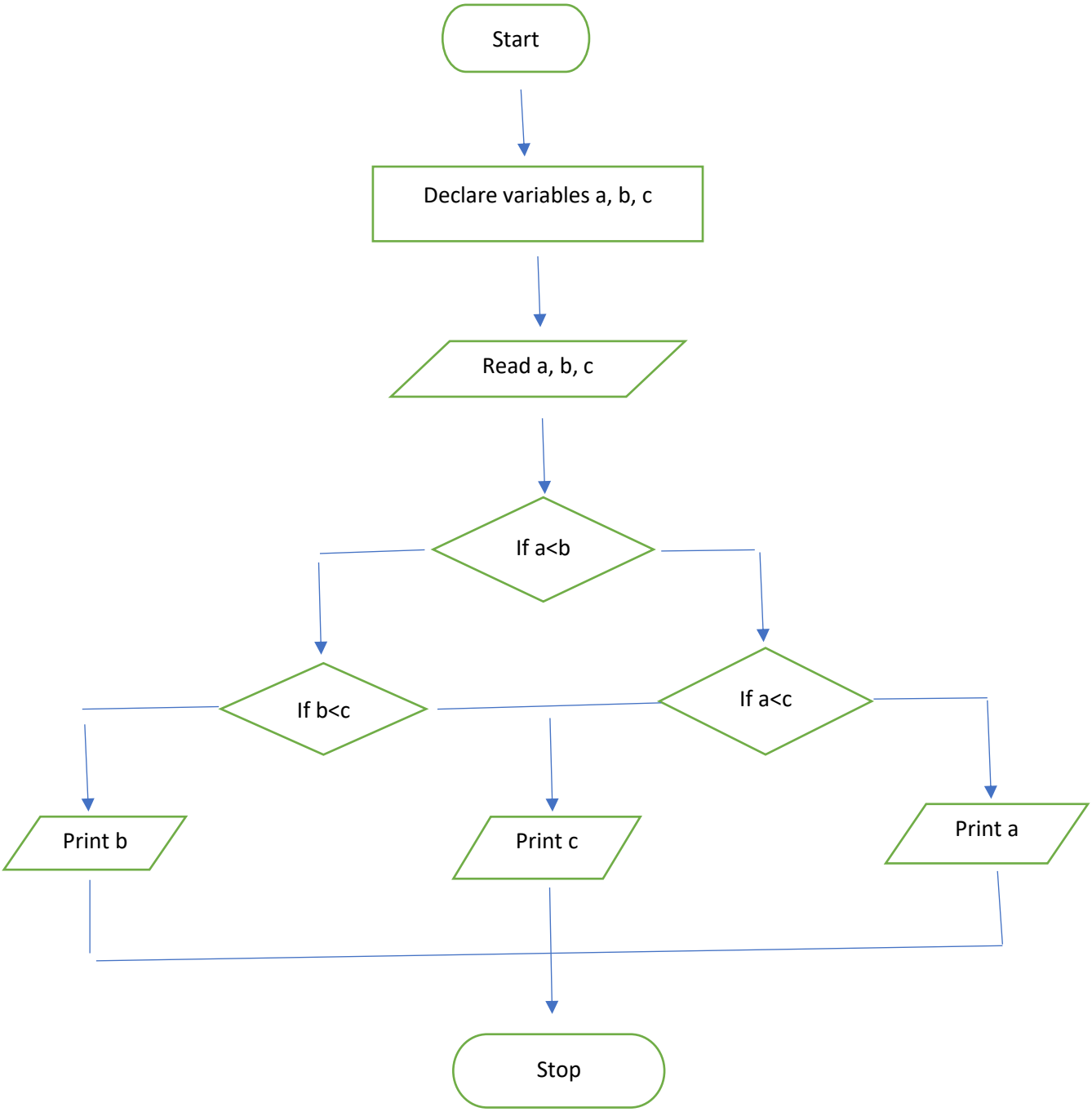

5. Find the roots of a quadratic equation $ax^2+bx+c=0$.