Question1

First, create an variable n // n to store number of customers.

List Service[n]; // to store service time of each customer.

Using a for loop to store the service customer

Then sort the service list

Ti[n]; // Ti to store completion time of each customer.

for(int j=1; j<n; j++) {

Ti[j] = Ti[j-1] + Si[j]; // calculating finishing time

Sum = 0

for(int j=0; j<n; j++) {

sum += Ti[j];

}

//Then calculate the average

Average = sum / n

This algorithm calculates the average completion time after sorting in ascending order. As a result, it employs a greedy strategy.

The running time would be O(logn)

Question 2

A picture containing text, whiteboard

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Question 3

Calendar

Description automatically generated

Question 4

Text, letter

Description automatically generated