

Based on the problem statement, write an algorithm ( the sequence of actions required) to calculate the parking charges for each customer and to keep the running total of all receipts for a single business day. Save your algorithm in a PDF file.

- 1) Driver comes up to ticket-taker machine
- 2) Driver inserts ticket into ticket-taker machine
- 3) Ticket-taker machine takes ticket
- 4) Ticket-taker machine determines rounded-down-to-whole-integer park time = k
- 5) Ticket applies formula and if/then statements for output  
Int k,  $3 < k < 24$   
cost =  $.5k + 2$   
int finalcost2 = finalcost1  
{  
If  $k < 3$   
then finalcost1 = 2;  
}  
{  
If cost  $> / 10$   
then finalcost1 = 10;  
}  
cout << "Total Cost: " << "finalcost2" <<;
- 6) Ticket-taker records and adds to data of receipts for hours 0000-2400 of the current day