We have been hired by a major city to produce software for the ticket machines for the transportation centers in their mass transit system.

Ticket machines will:

- Sell tickets of a particular cost in cents which may vary from machine to machine (although the default cost is 75 cents)
- Allow a user to enter coins/money in cents
- Keep track of how much money the current user has put in the machine
- Allow a user to request a ticket to be printed
  - If the user has entered enough money, then a ticket is issued and the cost is subtracted from their current balance
  - If there isn’t enough money, an error message would be displayed
- Allow a user to request that any remaining balance be returned in cash
- Be loaded with a roll of tickets
  - New rolls contain 250 tickets
  - Partial rolls can also be loaded instead
- Know how many tickets remain on the roll
- Know how much money is in the machine
- Send a message to central headquarters when the money in the machine exceeds a limit (by default, this limit is $500)