customer

+arrivalTime: float
+startOfService: float
+departTime: float
+hasArrived: bool
+nextCustomer: customer*

+customer()

p_queue

+head: customer*
+currentSize: int
+MAXSIZE: int = 200
+theLine: customer**

+p_queue()
+insert(customer*)
+pop(): customer*
+getLeftChild(int): int
+getRightChild(int): int
+getParent(int): int
+swap(int,int)
+perkDown(int)
+perkUp(int)

simulation

+fifo_queue: std::queue
+my_pq: p_queue
+n: int
+customersInSystem: int
+lambda: int
+mu: int
+servers: int
+simTime: float
+idleTime: float
+serviceTime: float
+waitedInLineTime: float
+availableSerevers: int
+waitedInQueue: int
+timeInSim: float

+promt(int*,int*,int*,int*)
+getIdleTime(float,float,float): float
+factorial(int): int
+getPeopleInSystem(float,float,float,float): float
+displayStats(int*,int*,int*)
+getCustomerTime(float,float): float
+getCustomersInQueue(float,float,float): float
+getRho(float,float,float): float
+getNextRandomInterval(int): float
+showResults(int*,int*,int*,float*,float*,
              float*,float*,float*)