18W18 (210)
CN-LAB  Page
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PROGRAM 8: LEAKY BUCKET ALGORITHM
LODE import as
clear = Pambda: Os. system ('clear')
Class Client:
def_init_(self, rate=int, data=[]:
self nate = rate
self. data = data
End as Eville regions 172 2
def_str_Self):
return str (Estr (self-rate),
Str (self.data))
class Bufferr:
dof ==== Co-000   00
dof_mit_ (self, buffer_size = int, buffers)
self-buffer-size = buffer_size
2 Self. buffer = buffer
def checkstate (self):
if len (self. buffer) = = 0:
roturn Frue
def - str (self):
return str ([str (self-buffor size)]
Str (8elf. buffer )]);
aprestate = True  Sec = 1

buffer = Buffer (int (input ("enter buffer size")) client = Client (int (input ("enter client acceptance rate in bles "))) data-to-send = str while boostate: data to send = input ("enter a string" count = 0 if buffer . check state ( for i in range (0, ean (data to send) if i < client rate Client - data · alpend (data\_to\_sender) else: if count < buffer - buffer - size: buffer. buffer-append Edate to some Colata to send [] count - Oan (buffer - buffer) dose: brint ("Data loss"+data to sendE) i in rance (0, len (data-to-send) + Oon (buffer - buffer)): if i = client-nate: if Oon (buffer - buffer): client-data append (buffer-bufferto) del buffer-buffer [0] client.data-append(data\_to\_sond & olse: ill and kontrol & buffer & buffer truffer

