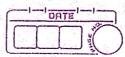
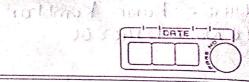
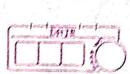
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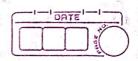
* Question 1.
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Class Node:
slots = 11/2 courseCode " gradePointil semValue"
def Librit (self, roursle (ode, sem Value, gradePoint):
Self ! conse Code = conselade !
contributed = sem Value
definit (self, student Data, current semister)
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whill be well and the walk
def Sem To Value (Self, data) = 1
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"W":21 1 1 1 1
"s":3 / Acquired the service service service
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SemValue = data . Split ("-11)
SemValue = (int(semValue [0]) + semValue[1] + in+(
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return (semilale) while set the second of the
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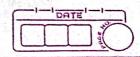
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requirectsemister = self semto Value (self. curentsemister)
self. student Dato-sort (key = lambda 7: Y [2])
TSelf. course Data = []
prevot self. student Data (O) (1)
- (hund befor in him mange (len (self shident Data));
n = self. Node (self _ student Data [i] (1)
Self. senvalue (self. studendata[][6],
Sold Stolendatalij(6)
self. grade Tolg [self. strobent Bit of][
(1) Sentative > 10 tion that
If plev = self stickent Data [i][] and i!=0
and no semilature z = requiredsemister
It n. semvalue > self. courseData[-1]-semvalu
Self. roursePata.pop()
Self. conseData. appendin)
elif (n. sem Value <= required Semister):
pres = n. Coinse Code
self- conseDatale appendin)
return self courseData
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def calculate (GPA(self);
Sum =0
total Courses = lovini) = 191 min tonin . The
for it in self. conseDato
Sim # = (1,2) ngrade Paint IV of inte
total Courses + =1
return sum 1 Hotal Coinses
Do If name = "main".
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C = (GPA (Pata Semisley)
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Print ((. (atolate (GPA())



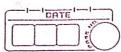
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Question 2 June 11 March 100 miles 100 miles
the design your (4) and production shows with the
Class ampleted (3:
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"overdiscond" the sale of the
def_init_ (self, list):
self. n = self. Node
definit (self, data = None, end blord=False).
selfdate = date
self. left = None
Self right = Name
selfequal = None
self endialand = endialand
the service of the segment of the
def _init_ (self, list)
self.n = self.Node()
Self-list = list
for win list:
self add (w, self.n)
A CLASSIC MARKET CARL COMMENT OF THE
def add (self, w, node):
111/C= W(0)
if not node-data:
nodedato = c
if c < nocle. dcita:
if not node left.
nodeleft = Note() self.Node()
self add (winode -left)
elif c> node. data
if not node right:
nde right = exode()
self-add (w, node. right)
else:
If $len(w) = = 1$ node = endulord = True
return



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and a RAIDI ENET DOUGLOS
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2. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
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5 2 2 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
def finder(self, P) def finder(self, P) for the pot in P?
def finder(self, P)
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W = self-timer_ Z (run)
If w = = None.
return Nove
else divide else divides la
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1 = dist (comp)
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if self. list (i) I a)
11 self. 11st (1) (1)
As appeared esert to transport
1. ant (reverse = True)
12 = [7]
for i in !!: for i in !!
if (i,i) in self-list:
12. append(j, j)
return 12
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1



def finder 2 (self(P)
node = Self inode()
(100) For Manne: State of the state of the
Cohile Tre:
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hnode=noderight
(utula shorn) humblelif c < node streft data:
node-node pleft
(1) 1 shoot I I II A todse !: we are miles
node = node equal
break in I have he
(tillice which) // lift hat mode; into
wreturn None
return self soff All CP, node)
The wan sell all 604 mode - dall made
Ifname= "_ main_ "william
s = input()
s = input() $datalist = list(input())$
Pt = complete A ([datalist [1700] for i in range (lendatalist
(C) and the distriction of 177)
Print (Pt. finder (ICS])
And the second s
JON Metto
Here I used tree data structure, As I want to use
different children (as imturnation of parent) attached to
it. This also takes minimum time.
· Time complexity = log(N)
· Here identalist should be given by user
Level 1 x 1 Ent 1 x 1 Ent 1/1/20 11 1
Comment Appear Language Language
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5 k 10 x 19 k
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	le length (se	of):	
if se	if head i	s None +11 1 0	
**************************************		et kesterile	
$c_1 = s$	elf. head	A CI PP	
	self. head		10 to the second
		LIVE BY	
	THE STATE OF THE S	1. next and a and	(2. next-next)
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		ount = 1	
		1 = C1. nex+	MANAGE TO THE PARTY OF THE PART
· P		while (4) =(2):	. pf
		u = a.nex+	*#*-, #
		cont tol	
		return count, CI	
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