Today's Content
h Currency enchange
b bractional knapsack
La Caseedy Properties
b fractional knapsack by Coreedy Properties by Activity Selection by Job Scheduling
4 Joh Scheduling
to the mondoner, if you
to we the mondoner, if you can

Indian currency: 1,2,5,10,20,50,100,200,500,2000

Cash: 5548 - min number of Coins Inotes to get required

Cash? bmutteres of same coins are allowed.

notes/coins	Count		(eftout	
2000	2	-	1548	
500	3	$\rightarrow$	48	will it always
20	2	7	8	work?
	1	<b>→</b>	_3	U, MOPE
2		<b>-</b> >	Ł	
1_		<b>-</b> >	O	Un Motes (1-1) *2 <:
	10			Hory [i]

la you can consume K kg of vegetables, you can lat any integral amount of item. Man Protein you can get?

				man 70 kg consur	-P410-
		Eating con	nPlete item	1 1	> man
Vegeto	ub les	Protein	gained	Fain Re	Proteinling
•			lot on the basis	iz ()	
Tomato	20 kg	200 P	of total Brote	dn	10 P/m -20- 200P
	V	10 0	gained left basing fortal Brote	Constant	1
APPles	is kg	180 P	50kg -> 250P	3 19 -3 1001	12P/Kg -15. 1808
onion	SO Kg	2501	201cg -> 200P	10Kg 2 50P	Selve
	•		4.600		V
Chicken	10 Kg	150 P	4508	12kg -> 132P	15P/kg-12-150P
_	•			15/7 -> 1808	801.
Potato	25 Kg	200₽		2019-2008	15P/kg-12-150P 8P/kg-8- 64P
	•	122 0			11Plkg-12-132P
mango	12 19	132 P		9216	118
Seafood	5 Kg	100 P		020 1	20 P/Kg -5 100P
P	0				821.0
				<b>I</b>	826 1

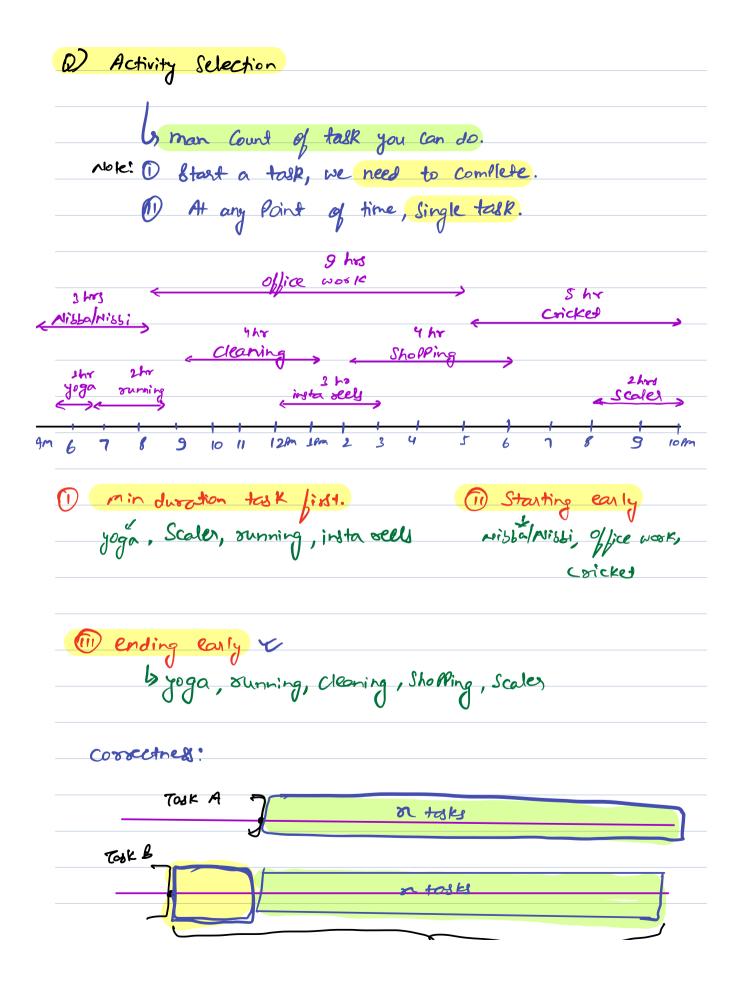
	sinony search
Greedy Propert	ies: ) greedy wil
4	selated Problem 2 Pointers

- (i) Bosed on what Parameter we want to apply greedy.
- (11) Check the alboach by Coming ut with Counter examples.

  Gatlest one counter

  example.

						7 K	9	
					ر چىزىي ا	rallest us.	100 lkg	ten/kg
Tomato	シ	S Kg	-) 50 l	P			(OF IES	71 -101
0.0					2 kg ->		(00P/Kg-	
HPPIR	<b>→</b>	6 Kg	<i>→</i> 60	oP		2508		6108
	lls	Solve	Pooblems	Ьу	"locally	OPFIN (greed)	al Choice	ey" of
		each Sta	ep, and	this is	giving	you t	he final	64+



~	
>= n	tosks

>= n taki
leaving more blots to do more tosks.
Non-overlapping intervals?
Algorithm: (90) Soot all the tasks on the basis of end time. (10) get all han-overlapping task.

Job &c	theduling			
b a	iven N tasks	to complete	-	
	dline assigned			or before we
	an do task.	V	<b>,</b> 0	
		ed to each	falk.	
	Payment assign			l de la constant
	on any given			TOUR WHA
	Each task tak	V		
	find man Pa	ayment we	can get.	
			Paran	eter
Ens?			Payment de	adline Rayment
Job	deadline da	y Payment		dealing
a	3	100	ce	a -> 157
Ь	1	19	1 2	3
C	2	27	Job deadline day	Payment
,		25	6 1	19
	3	•	2 2	27 25
e	ی	30	e 81	30
			<u>e</u> <u>d</u> 2	<u>a</u>
En2:		_		
Job	deadline day	Payment		a
a	3	5 3.5:6	o o	ر و پُرُ
Ь	1	1 deal: 1	2 3 3	3 3
C	3	6 Rg: 1	3 5 6	; <u> </u>
d	2	3		
e	3	9	X 2	
	_	<b>)</b>	ı	

En2:	Tojks:	1	2	_3	4	5	6	T	8	9	10	
	dead:	2	L	4	1	4	5	4	5	5	2	
	money:	200	250	200	3 <i>S</i> D	<i>3</i> 00	100	250	600	400	150	
	Sost on	the	bosis	of	dec	dlir	~					
	dead:		1	1	2	2	4	, 4	1	5	5 5	v <sup>l</sup>
	money:	250	200	250	200	0 15	ે ુ	00	250	190	600	(00
	V											rmin heaf
		M	)						2	50	850 400 250	1
									60	0	400	
					190	00	=			200	250	
									30	<b>10</b>	96	

11 Psue	do code;
	60 Sort the data on the basis of deadline
	(s (i) iterate and Pick the jobs if Payment is better
	Pain of discipline or Pain of orgoset
	Tan of orser in a segret
	En: ano: 4-1 -2 -33 6=5
(-1)	(-1 -1 -1 -1 -3) (-1 -2 -3)
	-4 78 -4 -6°
	-4 -4 = 0 mg
	-4 < -1

