None Key One 9/25/17 Our 1844 18

List-Processing and Decreasing-Time Algorithms

Apartments Unlimited is an apartment maintenance company that refurbishes apartments before new tenants move in. The following table shows the tasks performed when refurbishing a one-bedroom apartment, the processing time required for each task (measured in 15-minute units), and the precedence relations between tasks.

Tasks	Symbol/time	Precedence Relations		١
Bathrooms (clean)	B(8)	P = B	1	1
Carpets (shampoo)	G(4)	S & W	1	
Filters (replace)	E(E) V			0
General cleaning	G(8)	B ≠€, F ← , K ← €	1	2
Kitchen (clean)	K(12) /	P	~	5
Fix Lighting	1(1) 1			6
Paint	P(32)~	. Lap	1	Ů.
Smoke detectors	S(1)	G 🗝 🕏		
Windows (wash)	W(4)	G		

a. Draw a project digraph for refurbishing a one-bedroom apartment.
b. Using the Priority List B C R S W create a schedule for refurbishing an apartment with two workers. Show the project timeline and give its finishing time.

WIU	rwo workers.	Show the	projec	ct timeli	ne and	give its	finish
Pi	E P		B	6	s c	E ends	nt (01
Pz	The second of th	Production of the State of the	K		W S		1

c. Using the Priority List W.C. (S.S.) Concrete a schedule for refurbishing an apartment with two workers. Show the project timeline and give its finishing time.

2	P	K	G	W	C
2 5		B	and the same	8	

d. Using the decreasing-time algorithm, schedule the project with 3 workers. Show the timeline for the project and give the finishing time.

, the	project a	mg r	ame	3 50	53 15	25 60 65				
Pi	F	4	?	K		6	W	C	E	61
Pz	LILLA		No average of the same	B			[k]		Outsidesid	NOTE VEDENCE AND THE PER
P3			7444			Juli			064,700	A HANDON PRINCIPAL PRINCIP

e. Using the decreasing-time algorithm, schedule the project with 4 workers. Show the timeline for the project and give the finishing time, $\frac{47}{53}$, $\frac{50}{57}$, $\frac{60}{63}$, $\frac{65}{63}$, $\frac{6}{63}$, $\frac{6}$

t	he project and give the fini	shing time,	45 50	3 1 0	5 40	(\$)	
Pi	P	1 1	G	W	C	COMPLETE THE PERSON NAMED IN COLUMN TO PROPERTY OF THE PERSON NAMED IN COLUMN TO PERSON NAMED IN	
Pz	The state of the s	O .	LANGE CACAMATAN	5			UNION A SECONDA
P3	and the control of th	CONTRACTOR OF THE PROPERTY OF	services in the byte his	MATERIALIS	and Marketon Co.	THE WOOD AND THE STATE OF THE S	The Courses Continue
Py	A CONTRACTOR OF THE PROPERTY O	encontract values and design and the services of the services	Control of the Port of the Por	etto-mon	est Course & year		