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	03	Solve the following oll knapsack problem
		$n = 4$, $m = 18$, $\omega = (3,8,6,4)$, $P = (9,10,12,9)$
	-	
		formula
£		() fi(y) = max (° fi-1(y)
a garage		í fr:-1 (y-wi) +Pi
		(i) $f_1(m') = P_1$ if $(\omega_1 \leq m')$
		= 0, otherwise
in P		$f_1(-m') = -\infty$
y		0 - 0 0
		$\omega_1 = 9$, $\rho_2 = 10$, $\rho_3 = 12$, $\rho_4 = 9$ $\omega_1 = 3$, $\omega_2 = 8$, $\omega_3 = 6$, $\omega_4 = 4$
		$\omega_3 = 6$ $\omega_4 = 4$
		fig fu (18) = max (° f(3)(18)
		f3(18-4)+9
		= max (31,31)
		= 3 3 3 3 3 3 3 3 3 3
		ffor ((()) = m · () (())
**	3	$f_3(18) = max (f_2(18))$ $f_2(18-6)+12$
		1 12(18 0) 112
		= max (19,31)
		= 31-7 1 24 2 200 100 100 100 100 100 100 100 100 1
, <u></u>	-	$f_3(14) = max \int_{1}^{6} f_2(14)$ $f_2(14-6)+12$ $f_2(14-6)+12$
		1 +2 (14-6)+12
		= max (19,22)
		= 22

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	The second secon		
f7 (18) = max (f3	(18)		
	1 (18-8)+10		
= max (9,10			
=19	d and the state of		
fz (12) = max (fi	(12)		
A CONTRACTOR OF THE CONTRACTOR	(12-8)+10		
$=$ $=$ $\max (9,10)$	۹)		
= 19			
	no de la companya de		
fr(14) = max (0 fi(14)		
, FL (11	(-8) +10		
= max (9,19			
= 19			
f2(8) = max (°f1)	8)		
/ 41(8-6)+10		
= max (0,10			
= 10			
	y comment of property and a second		
Solution vector = 9 1	-		
= {	1,1,1,0}		
(ac, il	1.4.45		
Total profit = P4 t			
	12 + 9		
=31			
weight = W4+w5+W2			
= 4 +6+8			
= 18			
maximum profit for	given knapsack problem		
is <u>31.</u>			