int[] profits = {31,26,72,17};	P1	P2	Р3	P4					
int[] weights = {3,1,5,2};	31	26	72	17]				
capacity = 7	W1	W2	W3	W4	1				
ans : 98	3	1	5	2]				
		!	!	ļ.	4				
Top-Down									
	CO	C1	C2	C3	C4	C5	C6	С7	
P1	0	N	N	N	N	N	N	N	
P2	0	N	N	N	N	N	N	N	
P3	0	N	N	N	N	N	N	N	
P4	0	N	N	N	N	N	N	N	
			•				•		
	C0	C1	C2	C3	C4	C5	C6	С7	
P1	0	N	N	N	N	N	N	Max((P1+P2C4),P2C7)	
P2	0	N	N	N	N	N	N	N	
P3	0	N	N	N	N	N	N	N	
P4	0	N	N	N	N	N	N	N	
						6 -			
P.4	CO	C1	C2	C3	C4	C5	C6	May//21 + D2C4\\ D2C7\	
P1 P2	0		N	N	N	N	N	Max((31+P2C4),P2C7)	
P3	0	N N	N N	N N	N N	N N	N N	N N	
P4	0	N N	N	N	N	N N	N	N	
r4	U	IV	IV	IV	IN	IN	IV	IV	
	CO	C1	C2	C3	C4	C5	C6	С7	
P1	0	N	N	N	N	N	N	Max((31+P2C4),P2C7)	
P2	0	N	N	N	Max((P2+P3C3),P3C4)	N	N	N	
P3	0	N	N	N	N	N	N	N	
P4	0	N	N	N	N	N	N	N	
	C0	C1	C2	C3	C4	C5	C6	С7	
P1	0	N	N	N	N	N	N	Max((31+P2C4),P2C7)	
P2	0	N	N	N	Max((26+P3C3),P3C4)	N	N	N	
P3	0	N	N	N	N	N	N	N	
P4	0	N	N	N	N	N	N	N	
	- 66	64	63	63	C4	6 5	66	67	
P.4	CO	C1	C2	C3	C4	C5	C6	C7	
P1 P2	0	N	N	N	May/(D2+D2C2) D2C4)	N	N	Max((P1+P2C4),P2C7)	
P3	0	N N	N N	N Max((0+0),P4C3)	Max((P2+P3C3),P3C4) N	N N	N N	N	
P4	0	N N	N	Max((0+0),P4C3)	N	N N	N N	N N	
	0	14	14	IN .	14	1 1	TV TV	IV	
	CO	C1	C2	C3	C4	C5	C6	С7	
P1	0	N	N	N	N	N	N	Max((P1+P2C4),P2C7)	
P2	0	N	N	N	Max((P2+P3C3),P3C4)	N	N	N	
P3	0	N	N	Max((0+0),P4C3)	N	N	N	N	
P4	0	N	N	Max((0+0), 0)	N	N	N	N	
				((= 3//-)					

P1									0-
P2		CO	C1	C2	C3	C4	C5	C6	C7
P3 0 N N N O N N N N N N N N N N N N N N N	_								Max((P1+P2C4),P2C7)
CO	_								
CO C1 C2 C3 C4 C5 C5 C7 P1 0 N N N N N N N N N N N N N N N N N N	_								
P2	P4	0	N	N	0	N	N	N	N
P1									
P2 0 N N N N Max((P1-P2 P3 C3),P3C4) N N N Max((P1-P2 P3 C3),P3C4) N N N N N N N N N N N N N N N N N N N		CO	C 1	C2	C3	C4	C5	C6	C7
P2 0 N N N Max((P+P3C3),P3C4) N N N N N N N N N N N N N N N N N N N	P1								Max((P1+P2C4),P2C7)
P3	_								
CO	_								
CO	_								
P2		U	14	į iv	U	IV	14	14	IV
P2		CO	C1	C2	C3	C4	C5	C6	С7
Page	P1								Max((P1+P2C4),P2C7)
P2 0 N N N 0 Max((0+0),P4C4) N N N N N N N N N N N N N N N N N N N	_								N
CO	_								N
CO C1 C2 C3 C4 C5 C6 C7 P1 0 N N N N N N N N N N N N Max((P1+P2 0 N N N N N N Max((P2+P3C3),P3C4) N N N N N N N N N N N N N N N N N N N	_					11			N
P1 0 N N N N N Max((P1+P2 0 N N N N Max((P1+P2 0 N N N N N Max((P1+P2 0 N N N N N N Max((P1+P3 0 N N N N N N N N N N N N N N N N N N									
P1 0 N N N N N Max((P1+P2 0 N N N N N Max((P1+P2 0 N N N N N N Max((P1+P2 0 N N N N N N N Max((P1+P3 0 N N N N N N N N N N N N N N N N N N		CO	C1	C2	C3	C4	C5	C6	С7
P2	P1	0	N	N	N	N	N	N	Max((P1+P2C4),P2C7)
P3	P2	0				Max((P2+P3C3),P3C4)			N
CO	P3	0							N
CO C1 C2 C3 C4 C5 C6 C7 P1 0 N N N N N N N N N N N N N N N N N N	_								
P1 0 N N N N N Max((P2+P3C3),P3C4) N N N Max((P1+P2 O N N N N N N Max((P2+P3C3),P3C4) N N N N N N N N N N N N N N N N N N N						- ((- 1/-1			
P2		CO	C1	C2	C3	C4	C5	C6	C7
P2	P1	0	N	N	N	N	N	N	Max((P1+P2C4),P2C7)
P3 0 N N N 0 Max((0+0),P4C4) N N N N N N N N N N N N N N N N N N N	P2	0	N			Max((P2+P3C3),P3C4)	N	N	N
CO	P3	0	N	N				N	N
CO C1 C2 C3 C4 C5 C6 C7 P1 0 N N N N N N N N N N N N N N N N N N	P4	0	N	N	0	17		N	N
P1				•	•				•
P2		CO	C1	C2	C3	C4	C 5	C6	C7
P3 0 N N N O Max(0+0,17) = 17 N N N N N N N N N N N N N N N N N N	P1	0	N	N	N	N	N	N	Max((P1+P2C4),P2C7)
CO	P2	0	N	N	N	Max((P2+P3C3),P3C4)	N	N	N
CO C1 C2 C3 C4 C5 C6 C7 P1 0 N N N N N N N N Max((P1+P2 P2 0 N N N N N Max((26+0),17) = 26 N N N N P3 0 N N N 0 17 N N N N P4 0 N N N N 0 17 N N N CO C1 C2 C3 C4 C5 C6 C7 P1 0 N N N N N N N N N N N N P4 0 N N N N N N N N N N N N N N N N N N	P3	0	N	N	0	Max(0+0 , 17) = 17	N	N	N
P1 0 N N N N Max((P1+P2 P2 0 N N N Max((26+0),17) = 26 N N N P3 0 N N 0 17 N N N P4 0 N N 0 17 N N N P1 0 N N N N N Max((31+2) P2 0 N N N N N Max((P1+P3) P3 0 N N N N N N	P4	0	N	N	0	17	N	N	N
P1 0 N N N N Max((P1+P2-P2-P2-P2-P2-P3-P3-P3-P3-P3-P3-P3-P3-P3-P3-P3-P3-P3-	_								
P2 0 N N N Max((26+0),17) = 26 N N N P3 0 N N 0 17 N N N P4 0 N N N O 17 N N N P4 0 N N N N N N Max((31+2) P4 0 N N N N N Max((31+2) P4 0 N N N N N Max((21+2) P5 0 N N N N N Max((21+2) P6 0 N N N N N N Max((25+0),17) N N P6 N N N N N N N N P7 N N N N N N N P8 N N N <td></td> <td>CO</td> <td>C1</td> <td>C2</td> <td>С3</td> <td>C4</td> <td>C5</td> <td>C6</td> <td>С7</td>		CO	C1	C2	С3	C4	C5	C6	С7
P3 0 N N 0 17 N N N P4 0 N N 0 17 N N N P4 0 N N N N N N N Max((31+2) P2 0 N N N N N Max((P2+P3) P3 0 N N N N N N	P1	0	N	N	N		N	N	Max((P1+P2C4),P2C7)
CO C1 C2 C3 C4 C5 C6 C7 P1 0 N N N N N N N Max((31+2) P2 0 N N N N N N Max((P2+P3) P3 0 N N 0 17 N N N	_	0	N	N	N	Max((26+0),17) = 26	N	N	N
CO C1 C2 C3 C4 C5 C6 C7 P1 0 N N N N N N Max((31+2)) P2 0 N N N N N N Max((P2+P3)) P3 0 N N N N N N	P3	0	N	N	0	17	N	N	N
P1 0 N N N N Max((31+2)) P2 0 N N N 26 N N Max((P2+P3)) P3 0 N N 0 17 N N N	P4	0	N	N	0	17	N	N	N
P1 0 N N N N Max((31+2)) P2 0 N N N 26 N N Max((P2+P3)) P3 0 N N 0 17 N N N									
P1 0 N N N N Max((31+2)) P2 0 N N N 26 N N Max((P2+P3)) P3 0 N N 0 17 N N N	_								
P2 0 N N N 26 N N Max((P2+P3 P3 0 N N 0 17 N N N									C7
P3 0 N N 0 17 N N	_								Max((31+26),P2C7)
	_								Max((P2+P3C6),P3C7)
P4 0 N N N N N N N	_								N
	P4	0	N	N	0	17	N	N	N
	_								
C0 C1 C2 C3 C4 C5 C6 C7		CO	C1	C2	C3	C4	C5	C6	С7

P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((P2+P3C6),P3C7)
Р3	0	N	N	0	17	N	Max((P3+P4C1),P4C6)	N
P4	0	N	N	0	17	N	N	N
	C0	C1	C2	C3	C4	C5	C6	С7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((P2+P3C6),P3C7)
Р3	0	N	N	0	17	N	Max((P3+P4C1),P4C6)	N
P4	0	Max((0+0), 0)	N	0	17	N	N	N
	CO	C1	C2	C	CA	C5	C6	С7
P1	0	N	N N	C3 N	C4 N	N N	N N	Max((31+26),P2C7)
P2	0	N	N	N N	26	N	N	Max((92+P3C6),P3C7)
P3	0	N	N	0	17	N	Max((P3+P4C1),P4C6)	N
P4	0	0	N	0	17	N	N	N
	Ü	Ŭ	.,	Ü		, ,	''	.,
	CO	C1	C2	C3	C4	C5	C6	С7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((P2+P3C6),P3C7)
Р3	0	N	N	0	17	N	Max((P3+P4C1),P4C6)	N
P4	0	0	N	0	17	N	Max((P4+ 0), 0)	N
						-		
	C0	C1	C2	C3	C4	C5	C6	С7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((P2+P3C6),P3C7)
P3	0	N	N	0	17	N	Max((P3+P4C1),P4C6)	N
P4	0	0	N	0	17	N	17	N
	CO	C 4	C2	C2	CA	CF	CC	С7
P1	CO	C1	C2	C3	C4 N	C5 N	C6 N	Max((31+26),P2C7)
P1 P2	0	N N	N N	N N	26	N	N	Max((92+P3C6),P3C7)
P3	0	N	N	0	17	N	Max((72+0),17)	N
P4	0	0	N	0	17	N	17	N
	U	Ŭ	.,	Ü		, ,	-7	. ,
	C0	C1	C2	C3	C4	C5	C6	С7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((P2+P3C6),P3C7)
Р3	0	N	N	0	17	N	72	N
P4	0	0	N	0	17	N	17	N
	CO	C1	C2	C3	C4	C5	C6	C7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N 70	Max((26+72),P3C7)
P3	0	N	N	0	17	N	72	N
P4	0	0	N	0	17	N	17	N
		C1	C2	C3	C4	C5	C6	С7
	CO							
D1	C0							
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P1 P2 P3								

P4	0	0	N	0	17	N	17	N
	CO	C1	C2	C3	C4	C5	C6	С7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((26+72),P3C7)
Р3	0	N	N	0	17	N	72	Max((P3+P4C2),P4C7)
P4	0	0	Max((P4+ 0), 0)	0	17	N	17	N
	CO	C1	C2	C3	C4	C5	C6	С7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((26+72),P3C7)
Р3	0	N	N	0	17	N	72	Max((P3+P4C2),P4C7)
P4	0	0	17	0	17	N	17	N
	CO	C1	C2	C3	C4	C5	C6	C7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((26+72),P3C7)
P3	0	N	N	0	17	N	72	Max((P3+P4C2),P4C7)
P4	0	0	17	0	17	N	17	Max((P4+0),0)
	CO	C1	C2	C3	CA	C5	CC	C7
P1	CO	N		N N	C4 N	N	C6	
P1	0	N	N	N	26	N N	N N	Max((31+26),P2C7) Max((26+72),P3C7)
P3	0	N	N N	0	17	N	72	Max((P3+P4C2),P4C7)
P4	0	0	17	0	17	N N	17	17
F 44	U	Į 0	17	U	17	IV	17	17
	CO	C1	C2	C3	C4	C5	C6	C7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((26+72),P3C7)
Р3	0	N	N	0	17	N	72	Max((72+17),17)
P4	0	0	17	0	17	N	17	17
		•	•		•			
	C0	C1	C2	С3	C4	C5	C6	С7
P1	0	N	N	N	N	N	N	Max((31+26),P2C7)
P2	0	N	N	N	26	N	N	Max((26+72),89)
Р3	0	N	N	0	17	N	72	89
P4	0	0	17	0	17	N	17	17
	CO	C1	C2	С3	C4	C5	C6	C7
P1	0	N	N	N	N	N	N	Max((31+26),98)
P2	0	N	N	N	26	N	N	98
Р3	0	N	N	0	17	N	72	89
P4	0	0	17	0	17	N	17	17
	-00	64	63	63	64	OF.		67
D4	CO	C1	C2	C3	C4	C5	C6	C7
P1	0	N	N	N	N	N	N	98

P2	0	N	N	N	26	N	N	98
Р3	0	N	N	0	17	N	72	89
P4	0	0	17	0	17	N	17	17