

Q_11)	Coin denomination = 1,2,4,6 Amout to pay=10												
dra 2	3-3 4 0 1 2 3 5 6 7 8 9 10 1=1 1 6 1 2 3 5 6 7 8 9 10 1=2 2 0 1 1 2 3 3 5 5 6 6 1=3 4 0 1 1 2 1 2 3 3 2 3 5 1=6 0 1 1 7 1 2 1 2 2 3 12												
2 Stepsi	α[:][:]=0 when i=0 α[:][0]= α [2][0] = α[3][0] = α[h][0]=0												
stepse	j=z, j=2; dz=2												
2	a[2][2]= min (a[i][2], 1+a[i][i-di]) = min (a[i][2], 1+a[2][0])												
<u>k.</u>	= min (2,1+0)												
	a[2][10] = min (a[1][10], 1+a[2][8]) = min (10, 1+5) = 6												
	= 6 0[2][7] = min (a[.][7],1+0[2][5]) = min (7,1+4)												
	a[2][s] = min (a[1][s] 1 + a[2][3]) $= min (s, 1+2)$ $= 3$												
	- 3												

- a[3][7]= min (a[2][7], 1+a[3][3]) = min (5, 1+2)
- a[3][9] = min (a[2][9], 1+a [3][5]) = min (6, 1+2)
- a[3][10] = min (6,1+3)

- O[h][8] = min (a[3][8], 1+a[4][2]) = min(2, 1+1)
- a[h][9] = min (a[3][9], 1+a[h][3]) = min (3, 1+2)
- O[h][10] = min (a [3] [10], 1+a [h][h]) = min(h, 1+1)
- Denomination coin = 26,63

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	let matrix A(pxq) & matrix B(qx8)
	are two given matrices for multiplian
	The segultantal matrix = C=A-B
The state of the s	so, Cij = 52 airbri
C. Seller	
	A, [18x4], A2[4x13], A3[13x7], Ay[7x18]
Second Second	Hese dimensions are Po=18, P_=4, P2=13, P_=4,
100 miles	Po =15
Step!	Je == 3 Then ME=J[3]=0
	30 M[1][1] = M[2][2] = M[3][3] = M[4][4][4]=0
Party.	1 0 936
	2 - 0 364
	3 0 1365
Series	4 0
Step! 2	M [17[2] = Pox P, xP2 = 18 x 5 x B
om/c	<u> </u>
	$P([2][3] = P_1 \times P_2 \times P_3 = h \times 13 \times 7$
garde.	= 365
gaile"	
distribute.	M[3][h]=P2×P3×P4=13×7×15
order	= 1365
step: 3	M[1][3]; i=1 & j=3 ; k=1 08 2
	F08 (=)

-M[2][4]; 1=2 & j=4; 1=2 083

FOR K=2

MI[2][h] = M[2][2] + M[3][h] + P, ×P3 ×Ph = 0 + 1365 + (h × 13 × 15)

F08 1 = 3

M[2][h]=M[[2][3]+M[[h][h]]+P, xP3 xP4 =36h+0=(nx7x15) =)784

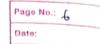
-M[1][h]; 9=1 & j=h; 1e=1 052083

FOB K=1

M[1][h]= M[1][1] + M[2][h] + PoxP, xPh = 0 + 78h + (18xhx15) = 186h

F08 1 = 2

FOR K=3 MI[1][4] = M [1][3] + M[[1][4] + P × P3 × P4 = 868 + 0 + (18 × 7 × 16) = 2758



Now,		ı	2	3	4	
	7	0	936	868	1864	
	2	-	0	364	784	
	3	-	-	0	1365	
	4	-	-		0	
	The state of the s					

Parenthesize matsices is

(A, .(A2.A3)) Ah

6.13 Longest common sub-sequence SI = abbaceleba SZ = bedbbcae

							_					
2			0	,	2	3	4	5	6	7	8	
		33	6	0	0	b	6	C	a	a		
	0 500		0	0	.0	0	0	0	0	0		
	I	a	0	个。	10	10	10	个〇	10	ヒゴ	ヘユ	
1	- 2	Ь	0	KI	41	4ユ	RI	12	4 ユ	4 1	41	
	3	Ь	0	ドコ	个工	11				+ 2		
	3	a	0	上个	11	个ユ	12	12	12	43	<b>Ť</b> 3	
	5	c	0	12	R2	<b>←</b> 2	12	72	43	<b>†</b> 3	13	
	6	a	0	トユ	12	R3	<del>¢</del> 3	<del>4</del> 3	13	13	*3	
· -	77	С	0	11	12	13	个3	13	124	44	44	
	8	Ь		K1							介为	
	9	a	0	个ユ	Ŷ2	13	14	3 4	74	A 5	15	
							· ·					-

- Longest Common subsequence ps

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												Dat	te:		
9.14	W=10 (Knapsack Problem)														
	o k	-	I	2	3	,	7								
		Vo	10	>	40	30		50							
		wo	5	-	5	6		3							
Ang	j=w -> knapsack capacity										4				
		V.	w:	0	1	2	3	1	5	-6	7	8	9	10	
	120		0	0	0	0	0	0	0	0	0	0	0	0	
	9=1	10	5	0	0	0	0	0	10	10	10	10	10	10	
	1=2	40	4	0	0	0	0	40	50		40	40	50	-50	
	i = 3	30	6	0	0	0	0	ho		40	40	40	50	70	
	1=4	50	3	0	0	0	50	50	50	50	90	90	90	90	
>>	HERE n = number of objects = 4														
	w-copacity of knapsack=10														
						7									
stepsi	NEITET=0 whose i=0														
- 1															
Steps 2	2 JP jcw; V[;][;]=V[;-I][;]														
	= = 4 < w=6														
	V[3][h] = V [2][4] = 40														
Steps3	TP	Î	> 1 wo	S)	AL	nen									0
3(480)	V 7 9	7 [:	] = v	na.	$\times$ (	VI	-1]	[ 2]	, V	In-	7[1	j - 10	] ·	+00	
					,										
	927	- > N	o = 3						,					7	
	VIN	7 [7		na	$\times$ (	VI	Z)	[4]	_ ^	J-23	JI	h] -	+50	)	
			2	3	x (	ho	4	90 t	- 50	5)					
			=	3	a X	-C2	10,	90)							
				19	-										

Date: - The knap sack cashies two objects with total profit of go The selected objects are 2 & 4 TOTAL ST educed. and the and a gazze. Land of *9262* paints. patrick. 1200