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	1)	In the lectu	re you sav	the follov	ving subp							. 4[1	:12							_ s		t Sum									+
		True or fals	o: the runt	ima af tha	dunamic						he array			soc this	cubarak	olom don	ands an the				:₩	Idea : T	wo thing thing		ppen to	each e	lement				_
		size of the			uyriairiic	prograi	mining a	aigontii	111 10 50	ive the :	subset su	iii probit	em mac c	ises uns	subplot	летт чер	enas on the	•		De	finition o	of the DP	• It doesn' table : I			nd a subse	t sum fron		[0n][0.		
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-																				E	tracting	the solu	tion : T	he soluti	ion is at	DP[n][8	6]				+
																															4
	\mathfrak{I}	In the lec	ure you sa	w the follo	owing su	bproblen	n for so	lving th	ie subse	t sum pi	roblem:																				
						T	(i, s) =	is <i>s</i> a	subset	sum o	f the arr	A[1]	i]?																		
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		Based on	this table,	which of t	he follow	ving stat	ements	are cor	rect? (P	ay atter	tion to th	e bound	s of the a	rrays!)																	_
		Select on	e or more:																												
		a. 🚺	is a subs	et sum of a	$4[1 \dots 3]$																										
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	3)	In the le	cture yo	ı saw the	followir	ng subp	roblen	n for so	olving 1	the <i>Kno</i>	<i>psack</i> p	roblem:							k	nan	sacl	,	1					1		'	
				M(i,w)	= max	kimum	profit	t that	can b	e achie	eved us	ing itei	ns in A	$[1 \dots i]$	of to	tal weig	ght at mo	st w.	``	_		a : Two	things	ran hai	nnen t	o each	n elem	ent			
		Which o	of the foll	owing red	cursion f	formula	s corre	ctly co	mpute	es the v	alue of 2	M(i, w))?								y luci		e use it a			o cuci	Cicili	CITE			
		(Below,	p_i is the μ	profit of it	em i, ar	nd w_i is	the we	eight of	f item i	i.)									, Do	finitio	of the		don't us		White a situation		C. C.	ATO The	-)n][0V	v]
-		Select c																				Dr lab		[I][W] -	Maxir	num pro	rit from .	A[UI] W	ith weign	nt limit w	
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				$)=\max$	$\{M(i-$	-1, w),	, p_i	+ M(i	i, w —	$w_i)\}$										mputa Ini	ition of tializat	an ent on :	•	P[i][0]	= O						
		_ a. _ b.	M(i, w) $M(i, w)$	$= \max$	$\{M(i -$	- 1, w -	$-w_i),$	p_i \dashv	+M(i	-1, u	.,,	}								mputa Ini	ition of	an ent on : i :		we	don't use i i		we use		w- w[i]]	1	
		_ a. _ b.	M(i, w) $M(i, w)$		$\{M(i -$	- 1, w -	$-w_i),$	p_i \dashv	+M(i	-1, u	.,,	}							Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w- w[i]]	1	
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	1)	a. b. C.	M(i,w) $M(i,w)$ $M(i,w)$. 10] be a) = max) = max	{M(i - {M(i - 10) } 10 } 10 uniqu	- 1, w 1, w),	$-w_i), p_i$ ers.	$p_i + M(i)$	+M(i-1,i-1,i-1)	-1, u $w - w$;)}		rnumber	r than a	longest	increasi	ng subseque	ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w- w[i]]	1	
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l	1)	a. b. Cc Cc Let $A[1\dots 1]$ Select one True	M(i, w) M(i, w) M(i, w) . 10] be a se: A long) = max) = max	{M(i - {M(i - 10) } 10 } 10 uniqu	- 1, w 1, w),	$-w_i), p_i$ ers.	$p_i + M(i)$	+M(i-1,i-1) always	-1, u $w - w$ s ends ir	a strictly	smaller	<u>,</u> , s					ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w- w[i]]		
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	1)	a. b. C. C. Let $A[1\dots 1]$ Select one True	M(i, w) M(i, w) M(i, w) . 10] be a se: A long) = max) = max	{M(i - {M(i - 10) } 10 } 10 uniqu	- 1, w 1, w),	$-w_i), p_i$ ers.	$p_i + M(i)$	+M(i-1,i-1) always	-1, u $w - w$ s ends ir	a strictly	smaller	<u>,</u> , s					ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		
l	4)	Let $A[1\dots 1]$ Select one True False	M(i, w) M(i, w) M(i, w) . 10] be a se: A long) = max) = max in array of est increas	{M(i - {M(i - 10 unique)}	- 1, w 1, w),	$-w_i),$ p_i \cdots p_i	p_i ++ $M(ii)$ 1 5]	alwayse A C A C	-1, $u = -1$,	a strictivity of the strictivity	333 3	oroblem:	5,6	انعر	8,5		ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		
	5)	a. b. Cc Let $A[11]$ Select one True False	M(i, w) M(i, w) M(i, w) . 10] be a se: A long]].	$M(i, M(i, m)) = \max_{i=1}^{m} M(i, m)$	$\{M(i-1)\}$	- 1, w 1, w),	$-w_i),$ p_i p	p_i ++ $M(ii)$ 1 5]	+ M(i i - 1, 1, 1 i - 1, 1 i - 1, 1 i - 1, 1 i - 1 i - 1, 1 i - 1	-1, $u = 1$, $u =$	a strictly:	3333	oroblem:		[1i]	8,5		ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w- w[i]]		
	1)	a. b. Cc Let $A[11]$ Select one True False	M(i, w) M(i, w) M(i, w) . 10] be a se: A long]].	$M(i, v) = \max_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1$	$\{M(i-1)\}$	- 1, w 1, w),	$-w_i),$ p_i p	p_i $+$ $+$ $M(ii)$ $1 \dots 5$	+ M(i i - 1, 1, 1 i - 1, 1 i - 1, 1 i - 1, 1 i - 1 i - 1, 1 i - 1	-1, $u = 1$, $u =$	a strictly:	3333 3	oroblem:		[1i]	8,9		ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		
	4)	a. b. Cc Let $A[11]$ Select one True False	M(i, w) $M(i, w)$	$M(i, v) = \max_{i \in I} \sum_{j=1}^{N} \sum_{i \in I} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i \in I} \sum_{j=1}^{N} \sum_{i \in I$	$\{M(i-1)\}$	- 1, w 1, w),	$-w_i),$ p_i \cdot	p_i $+$ $+$ $M(ii)$ $1 \dots 5$	+ M(i i - 1, 1, 1 i - 1, 1 i - 1, 1 i - 1, 1 i - 1 i - 1, 1 i - 1	-1, $u = 1$, $u =$	a strictly:	ℓ smaller ℓ s	oroblem:		[1i]	8,5		ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		
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	5)	Let $A[1\dots 1]$ Select one True False In the le	M(i, w) $M(i, w)$ $M(i,$	$M(i, i) = \max_{i \in I} \sum_{j=1}^{n} \sum_{i \in I} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i \in I} \sum_{j=1}^{n} \sum_{j=1}^{n$	$\{M(i-1000000000000000000000000000000000000$	- 1, w 1, w), - 1	$-w_i$), p_i error $A[$	$p_i + M(i = 1 \dots 5]$ $1 \dots 5$	+ M(i i - 1, 1, 1 i - 1, 1 i - 1, 1 i - 1, 1 i - 1 i - 1, 1 i - 1	-1, $u = 1$, $u =$	and a strictly and a	y smaller 3.3.3 3.3 3.3 3.3 3.3 3.3 4.2 4.2	of lengt	h t in A	[1i]	€ = 3 ∞		ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		
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	5)	Let $A[1]$ True or fa $A[1]$ Select one True False In the le	M(i, w) $M(i, w)$ $M(i,$	$M(i, i) = \max_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1$	$\{M(i-1000000000000000000000000000000000000$	- 1, w 1, w), - 1	$-w_i$), p_i error $A[$	$p_i + M(i = 1 \dots 5]$ $1 \dots 5$	+ M(i i - 1, 1, 1 i - 1, 1 i - 1, 1 i - 1, 1 i - 1 i - 1, 1 i - 1	-1, $u = 1$, $u =$	a strictly in the strictly in	33333333333333333333333333333333333333	oroblem:	hh l in A	[1i]			ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		
	4)	Let $A[1]$ True or fa $A[1]$ Select one True False In the le	M(i, w) $M(i, w)$ $M(i,$	$M(i, i) = \max_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1$	$\{M(i-1000000000000000000000000000000000000$	- 1, w 1, w), - 1	$-w_i$), p_i error $A[$	$p_i + M(i = 1 \dots 5]$ $1 \dots 5$	+ M(i i - 1, 1, 1 i - 1, 1 i - 1, 1 i - 1, 1 i - 1 i - 1, 1 i - 1	-1, $u = 1$, $u =$	a strictly in the strictly in	33333333333333333333333333333333333333	oroblem:	hh l in A	[1i]			ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		
	5)	Let $A[1]$ True or fa $A[1]$ Select one True False In the le	M(i, w) $M(i, w)$ $M(i,$	$M(i, i) = \max_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1$	$\{M(i-1000000000000000000000000000000000000$	- 1, w 1, w), - 1	$-w_i$), p_i error $A[$	$p_i + M(i = 1 \dots 5]$ $1 \dots 5$	+ M(i i - 1, 1, 1 i - 1, 1 i - 1, 1 i - 1, 1 i - 1 i - 1, 1 i - 1	-1, $u = 1$, $u =$	a strictly in the strictly in	33333333333333333333333333333333333333	oroblem:	hh l in A	[1i]			ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		
	5)	Let $A[1]$ True or fa $A[1]$ Select one True False In the le	M(i, w) $M(i, w)$ $M(i,$	$M(i, i) = \max_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1$	$\{M(i-1000000000000000000000000000000000000$	- 1, w 1, w), - 1	$-w_i$), p_i error $A[$	$p_i + M(i = 1 \dots 5]$ $1 \dots 5$	+ M(i i - 1, 1, 1 i - 1, 1 i - 1, 1 i - 1, 1 i - 1 i - 1, 1 i - 1	-1, $u = 1$, $u =$	a strictly in the strictly in	33333333333333333333333333333333333333	oroblem:	hh l in A	[1i]			ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		
	4)	Let $A[1]$ True or fa $A[1]$ Select one True False In the le	M(i, w) $M(i, w)$ $M(i,$	$M(i, i) = \max_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{j=1$	$\{M(i-1000000000000000000000000000000000000$	- 1, w 1, w), - 1	$-w_i$), p_i error $A[$	$p_i + M(i = 1 \dots 5]$ $1 \dots 5$	+ M(i i - 1, 1, 1 i - 1, 1 i - 1, 1 i - 1, 1 i - 1 i - 1, 1 i - 1	-1, $u = 1$, $u =$	a strictly in the strictly in	33333333333333333333333333333333333333	oroblem:	hh l in A	[1i]			ence in	Co	mputa Ini Re	ition of tializat cursior	an ent on : i :	PP[i][w]	= DP	don't use i i	v] [o[i]+ D		w-w[i]]		