13 Lecture: Introduction, raposition analysis and the selection problem Lecture: Concrete models and over touchouse Lecture: Concrete models and print of nearing Lecture: Concrete models	Week	Saturday	Friday	Thursday	Wednesday	Tuesday	Monday	Sunday	MONTH
Description			•	Lecture: Concrete models		Lecture: Introduction, algorithm			
Lecture Hinteger sorting and particle hashing and perfect hashing and perfect hashing and perfect hashing and particle Streaming Adjorthms. Lecture Streaming Adjorthms. Recitation: Streaming and fingerprinting	1			and lower bounds					
Lecture: Streaming and fingerprinting Agorithms Programming Problem 1 out Homework 3 out Lecture: Union-Find Recitation: Amortized Analysis and Union Find Recitation: Amortized Analysis and Union Find Homework 3 out Lecture: Union-Find Recitation: Amortized Analysis and Union Find Homework 3 out Lecture: Dynamic problem 1 out Homework 3 out Lecture: Dynamic programming Programming Problem 2 out Lecture: Dynamic programming Lecture: Linear Programming Programming Programming Lecture: Linear Programming Programming Programming Lecture: Linear Programming Programming				Lecture: Hashing, universal		Lecture: Integer sorting		20	UARY
Lecture: Streaming and Imperprising Agoithms Programming Problem 1 out	2		Ü		Hamanian da dina				ΔĀ
Programming Problem 1 out Homework 2 due Homework 3 out Lecture: Union-Find Recitation: Amortized Analysis and Programming Problem 1 Due Homework 3 orals Lecture: Union-Find Recitation: Amortized Analysis and Programming Problem 1 Due Homework 3 orals Lecture: Range query data structures Homework 4 out Lecture: Dynamic Programming Problem 2 out Lecture: Dynamic Programming Problem 2 out Lecture: Network Flows I: Flows, Outs, and Natorings Programming Problem 2 out Lecture: Network Flows I: Flows, Outs, and Natorings Whomework 6 due SPRING BREAK 10 Lecture: Game Theory Lecture: Linear Programming Recitation: Game theory 8 Linear programming II: Eventure: Linear Programming Problem 2 Due SPRING BREAK 17 Lecture: Linear Programming Problem 3 out Homework 6 due Programming Problem 3 out Lecture: Linear Programming II: Cecture: Linear Programming II: Seldel's Approlim III: Seldel's Appro			Recitation: Streaming and		nomework i due	Lecture: Fingerprinting	27	27	,
Lecture: Amortized analysis Lecture: Union-Find Recitation: Amortized Analysis and Union Find Programming Problem 1 Due	3			Algorithms					
Nonework of the Control of the Con			Desitations Assertional Assets		Homework 2 due		0		
Homework 3 orals Lecture: Range query data Lecture: Polymanic Programming Programming Problem 2 out Lecture: Polymanic Programming Programming Problem 2 out Lecture: Network Flows Programming Programming Problem 2 out Lecture: Network Flows Programming Programming Problem 2 out Lecture: Network Flows Programming Problem 2 out Lecture: Network Flows Recitation: Network flows Programming Problem 3 out Lecture: Libear Programming Problem 2 out Lecture: Libear Programming Problem 3 out Lecture: Libear Programming Fundamentals and Modeling Fundamentals and Modeling Fundamentals and Modeling Programming Problem 3 out Lecture: Libear Programming Recitation: Game theory & Linear programming Edelet's Algorithm Programming Problem 3 out Lecture: Libear Programming Pro	4		and Union Find	Lecture. Officir-Find		Lecture. Amortized analysis	3	3	
10 MIDTERM ONE (7:00PM) Lecture: Range query data structures Homework 4 out				Homework 3 orals					
17 Lecture: Dynamic Programming Lecture: Dynamic Programming Lecture: Dynamic Programming Programming Problem 2 out Homework 4 out Lecture: Dynamic Programming Programming Problem 2 out Homework 5 out Lecture: Network Flows: Flows. Cuts, and Matchings Programming Problem 2 out Homework 5 out Lecture: Linear Programming Problem 2 Due Programming Problem 3 out Lecture: Linear Programming Recitation: Game theory & Linear Programming Problem 3 out Lecture: Linear Programming Recitation: More linear programming Programming Programming Programming Programming Programming Recitation: Online learning and multiplicative weights algorithm Programming P			Recitation: Range queries				10	10	
Programming Problem 2 out Homework 4 due Homework 5 out Lecture: Network Flows II: Polynomial-time and Min-cost Programming Problem 2 Due	5			structures		MIDTERM ONE (7:00PM)			JARY
Programming Problem 2 out Homework 4 due Homework 5 out Lecture: Network Flows I: Polynomial-time and Min-cost Programming Problem 2 Due			programming			Lecture: Dynamic Programming	17	17	<u>8</u>
Programming Problem 3 Out Programming Problem 3 Due	6								뿐
Polynomial-time and Min-cost Flow Programming Problem 2 Due	_				Homework 4 due				
SPRING BREAK	7		Recitation: Network flows	Polynomial-time and Min-cost			24	24	
10 Lecture: Game Theory Lecture: Linear Programming Recitation: Game theory & Linear programming Fundamentals and Modeling Fundamentals and Modeling Homework 6 out Homework 6 out Lecture: Linear Programming Recitation: More linear programming Homework 6 out Lecture: Linear Programming Recitation: More linear programming Programming Problem 3 Due Homework 7 out Homework 7 out SPRING CARNIVAL Homework 7 out Lecture: Computational Geometry I Lecture: Computational Geometry I Recitation: Approximation and online algorithms Lecture: Polynomials Recitation: Computational geometry I Recitation: Computational geometry I Recitation: Computational geometry I Recitation: Programming Problem 4 Due Lecture: Gradient Descent Recitation: Programming Problem 4 Due Lecture: Gradient Descent Recitation: Polynomials, FFT, Programming Problem 4 Due Lecture: Gradient Descent Recitation: Polynomials, FFT, Programming Problem 4 Due Lecture: Gradient Descent Recitation: Polynomials, FFT, Programming Problem 4 Due Lecture: Gradient Descent Recitation: Polynomials, FFT, Programming Problem 4 Due Lecture: Gradient Descent Recitation: Polynomials, FFT, Programming Problem 4 Due Lecture: Gradient Descent Recitation: Polynomials, FFT, Programming Problem 4 Due Lecture: Polynomials Recitation: Polynomials, FFT, Programming Problem 4 Due Lecture: Gradient Descent Recitation: Polynomials, FFT, Programming Problem 4 Due Lecture: Polynomials Programming Problem 4 Due			Programming Problem 2 Due		Homework 5 due				
Programming Problem 3 out Lecture: Linear Programming II: Lecture: Linear Programming III: Lecture: Linear Programming III: Lecture: Linear Programming III: Seidel's Algorithm Programming Problem 3 Due					SPRING BREAK		3	3	
Lecture: Linear Programming II: Duality Lecture: Linear Programming III: Seidel's Algorithm Programming Problem 3 Due	8			I: Fundamentals and Modeling			10	10	
Lecture: Online Learning & Multiplicative Weights Alg Homework 7 out Lecture: Approximation Algorithms Frogramming Problem 4 out Lecture: Computational Geometry I: Randomized Incremental Lecture: Computational Geometry I: Randomized Incremental Homework 8 due Lecture: Polynomials Recitation: Online learning and multiplicative weights algorithm SPRING CARNIVAL Recitation: Approximation and online algorithms Recitation: Computation and online algorithms Recitation: Online learning and multiplicative weights algorithm SPRING CARNIVAL Homework 8 out Lecture: Polynomials Recitation: Online learning and multiplicative weights algorithm SPRING CARNIVAL Homework 8 out Lecture: Polynomials Recitation: Online learning and multiplicative weights algorithm			programming	Lecture: Linear Programming		Lecture: Linear Programming II:	17	17	ı İ
Lecture: Online Learning & Multiplicative Weights Alg Homework 7 out Lecture: Approximation Algorithms Frogramming Problem 4 out Lecture: Computational Geometry I: Randomized Incremental Lecture: Computational Geometry I: Randomized Incremental Lecture: Computational Geometry I: Randomized Incremental Lecture: Polynomials Recitation: Online learning and multiplicative weights algorithm SPRING CARNIVAL Recitation: Approximation and online algorithms Recitation: Approximation and online algorithms Recitation: Computational geometry I: Randomized Incremental Homework 8 due Homework 9 out Programming Problem 4 Due Lecture: Gradient Descent Recitation: Programming Problem 4 Due	9								RC
Multiplicative Weights Alg multiplicative weights algorithm Homework 7 out				Homework 6 orals					ž
Computation	10					MIDTERM TWO (7:00PM)	24	24	
The second section of the section of				Homework 7 out					
Frogramming Problem 4 out Homework 8 out			<u> </u>				31	31	
Total Cecture: Online Algorithms Lecture: Computational Geometry I Recitation: Approximation and online algorithms	11		SPRING CARNIVAL		Hamman Talua	Algorithms			
Programming Problem 4 out Homework 8 out 14 Lecture: Computational Geometry II: Randomized Incremental Homework 8 due Homework 9 out Homework 9 out Lecture: Gradient Descent Recitation: Computational geometry Recitation: Programming Problem 4 Due Lecture: Gradient Descent Recitation: Polynomials, FFT,			Recitation: Approximation and	Lecture: Computational	nomework / aue	Lecture: Online Algorithms	7	7	
Lecture: Computational Geometry II: Randomized Incremental Homework 8 due Lecture: Polynomials Recitation: Computational geometry Homework 9 out Lecture: Gradient Descent Recitation: Computational geometry Recitation: Polynomials, FFT,	12					Leotare. Online / ligoritimo	•	,	
Geometry II: Randomized Incremental Homework 8 due Homework 9 out Programming Problem 4 Due Lecture: The Fast Fourier Lecture: Gradient Descent Recitation: Polynomials, FFT,				Homework 8 out		Programming Problem 4 out			
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28 FINAL EXAM WEEK	15	FINAL EXAM WEEK					28	28	