

	Q1	Q2	Q3	Q4	Q5	Q6	Q7
Mid18	Amortized Analysis	Amortized Analysis, queue, stack	random	Random, randomized selection			
Final18	Multi-Stack,quicksort,Monte Carlo,treewidth,vertex cover,independent set	Multi-Stack,Amortized Analysis	Waiting time, Coupon Collector problem.	Hashing,pairwise-independent, universal	FPT,set cover	Balls and Bins	
Mid19	binary heap , Fibonacci heap, tree decomposition	Amortized Analysis, combination	Shortest Path, approximate	Skip list			
Mid20	binary counter, Amortized Analysis	FPT	Random,	Random, Monte Carlo, Las Vegas			
Final20	Amortized Analysis	parallel	Balls and Bins	2-1: tree decomposition	2-2: LSH	2-3: distinct count	
Mid21	vertex cover,independent set,tree decomposition	Random, k-path	Amortized Analysis, queue	Random, maximum cut			
Final21	closest pair, Las Vegas,pairwise independence	Random, dense subgraph	Disk intersection, closest pair	Chernoff	Balls and Bins	Morris Counter, MG	Parallel
Mid23	Amortized Analysis, stack	Random, comparison	FPT,tree decomposition, shortest path	MAX-SAT, approximation			