

### Direct-Address Tables

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### Hashing with chaining

insertion	$O(1)$	insert at beginning of list
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deletion	search time + $O(1)$	double linked list
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search(worst)	$O(n)$	all keys in same slot
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unsuccessful search (average)	$O(1+\alpha)$	avg length of list = $\alpha$
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average case analysis

assume simple uniform hashing



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