Imperial College London – Department of Computing

MSc in Computing Science

580: Algorithms
Tutorial: Hash Tables

- 1. An open address hash table T has m=12 slots and uses the hash function $h(k)=k \mod m$. Assuming collisions are resolved using linear probing, draw the table after inserting the following keys, in this order: 82, 7, 47, 17, 49, 150, 34, 61, 107, 6.
- 2. A hash table T has a constant load factor, uses a hash function h and the chaining method of collision resolution. Assume the following non-uniform hashing: the probability of a key k hashing to h(k) = 1 is 1/2; the probabilities of k hashing to any other slot are all equal what is the following for an unxucless n contains n objects?

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