1. Name two (2) methods of collision resolution which differ in the data structure they use. Describe one (1) of these.

   **chaining, linear probing**

   Chaining involves adding all elements that hash to the same slot in a linked list.

2. Name two (2) types of hash functions. Describe one (1) of these.

   **division method, multiplication method**

   In the division method, the hash function is
   \[ h(k) = k \mod m, \]
   where \( k \) is the key,
   and \( m \) is the number of slots in the hash table.