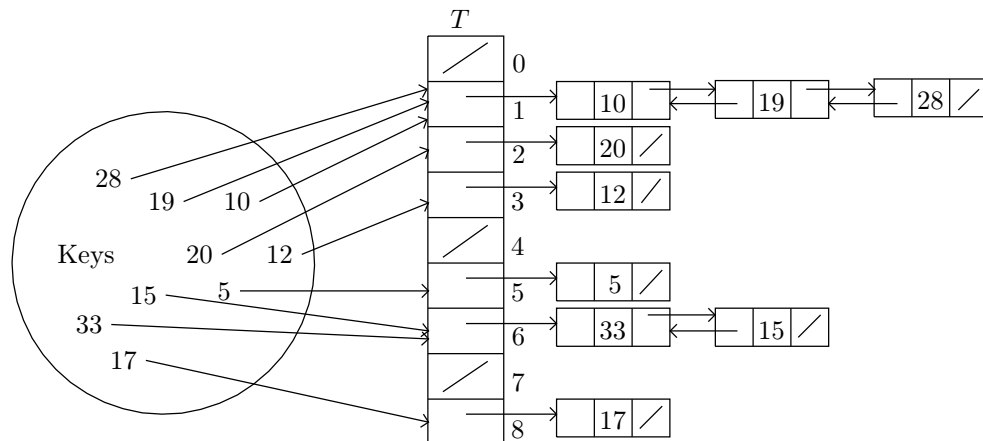


### 11.2-2.

Demonstrate what happens when we insert the keys 5, 28, 19, 15, 20, 33, 12, 17, 10 into a hash table with collisions resolved by chaining. Let the table have 9 slots, and let the hash function be  $h(k) = k \bmod 9$ .

### Answer.

Figure 1 shows the image when we insert the keys 5, 28, 19, 15, 20, 33, 12, 17, 10 into a hash table with collisions resolved by chaining.



**Figure 1.** Collision resolution by chaining. Each hash-table slot  $T[j]$  contains a linked list of all the keys whose hash value is  $j$ . For example,  $h(28) = h(19) = h(10) = 1$ .