

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.

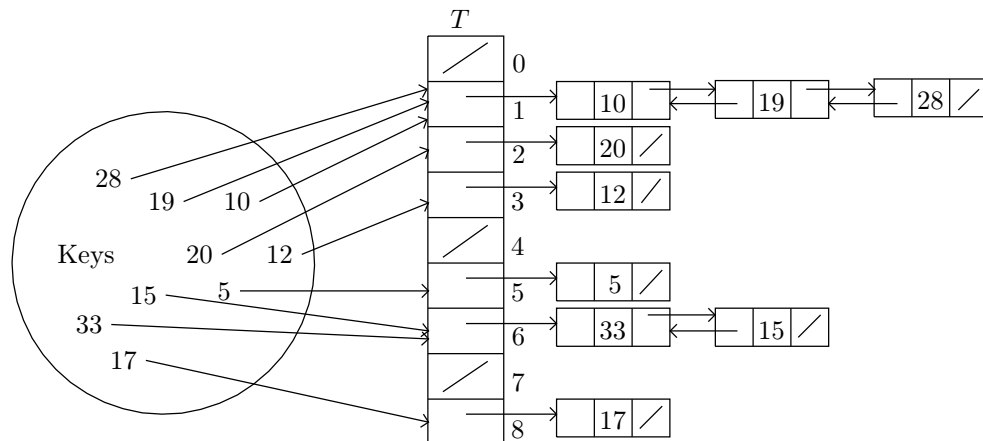


Figure 1. Collision resolution by chaining. Each hash-table slot $T[j]$ contains a linked list of all the keys whose hash value is j . For example, $h(28) = h(19) = h(10) = 1$.

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