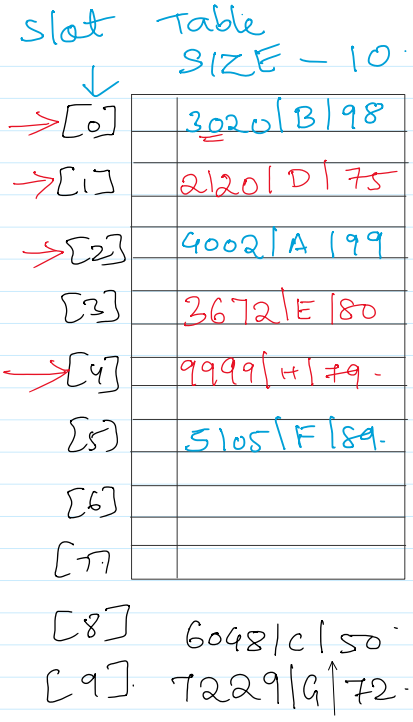
HashTables

04 July 2024 18:12



Rollno % SIZE N = (Slot+1)%S

Key % SIZE

key

values

	R	N	A	B	C	D	E	F	G	H
	4002, 3020, 6048, 2120, 3672, 5105, 7229, 9999									
		M	99	98	50	75	80	89	72	79

Collision.

multiple keys trying for the same slot(index).

Hash Function must :

1) Have uniform distribution / probability
2) Be Consistent(not based on random values / current date/time)

** It is observed that multiplication with prime numbers gives more uniform index/ slots. (mathematically Proven)

Collision Handling Techniques

- Open addressing
  1. linear probing
  2. quadratic probing
- chaining