

open addressing hash table:

- $\text{Hash}(x) = 7x^2 \bmod 10$

0	1	2	3	4	5	6	7	8	9

Add 313:

- $\text{Hash}(313) = 3$

0	1	2	3	4	5	6	7	8	9
			313						

Add 491:

- $\text{Hash}(491) = 7$

0	1	2	3	4	5	6	7	8	9
			313				491		

Add 546:

- $\text{Hash}(546) = 2$

0	1	2	3	4	5	6	7	8	9
		546	313				491		

Add 552:

- $\text{Hash}(552) = 8$

0	1	2	3	4	5	6	7	8	9
		546	313				491	552	

Add 785:

- $\text{Hash}(785) = 5$

0	1	2	3	4	5	6	7	8	9
		546	313		785		491	552	

Add 205:

- Hash(205) = 5

0	1	2	3	4	5	6	7	8	9
		546	313		785	205	491	552	

Add 710:

- Hash(710) = 0

0	1	2	3	4	5	6	7	8	9
710		546	313		785	205	491	552	

Add 768:

- Hash(768) = 8

0	1	2	3	4	5	6	7	8	9
710		546	313		785	205	491	552	768

Add 860:

- Hash(860) = 0

0	1	2	3	4	5	6	7	8	9
710	860	546	313		785	205	491	552	768

Add 901:

- Hash(901) = 7

0	1	2	3	4	5	6	7	8	9
710	860	546	313	901	785	205	491	552	768

Find 313:

- Hash(313) = 3

0	1	2	3	4	5	6	7	8	9
710	860	546	313	901	785	205	491	552	768

Delete 491:

- $\text{Hash}(491) = 7$

0	1	2	3	4	5	6	7	8	9
710	860	546	313	901	785	205		552	768

Find 768:

- $\text{Hash}(768) = 8$

0	1	2	3	4	5	6	7	8	9
710	860	546	313	901	785	205		552	768

Delete 901:

- $\text{Hash}(901) = 7$

0	1	2	3	4	5	6	7	8	9
710	860	546	313		785	205		552	768

Find 1:

- $\text{Hash}(1) = 7$

0	1	2	3	4	5	6	7	8	9
710	860	546	313		785	205		552	768

- key not found