

Roman Vasilyev

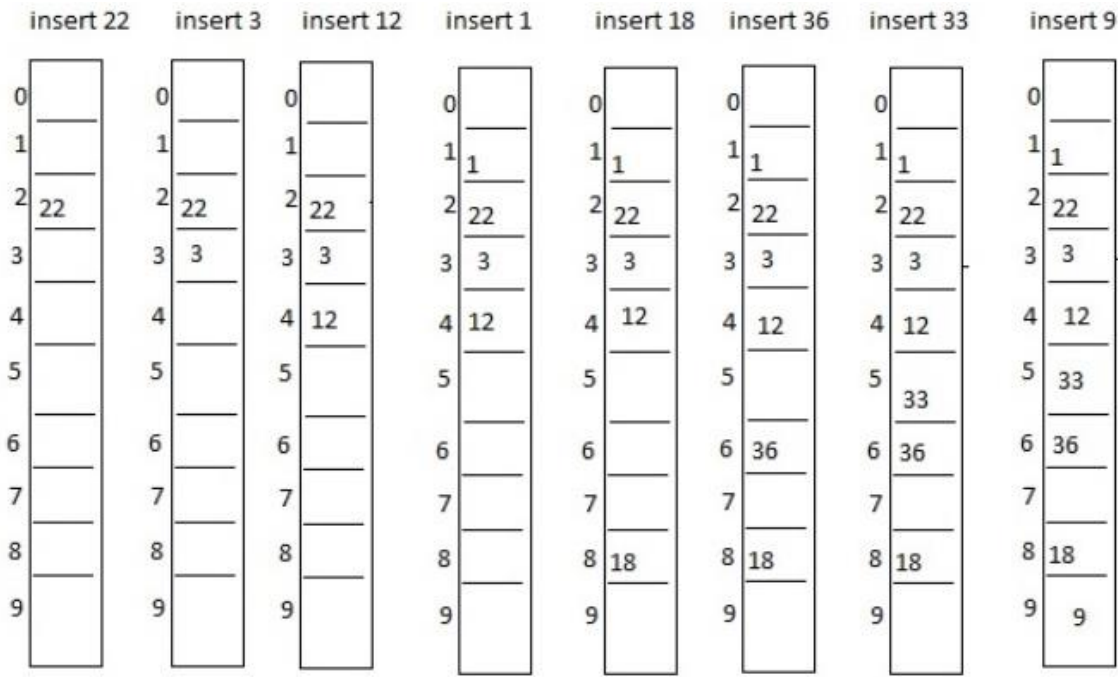
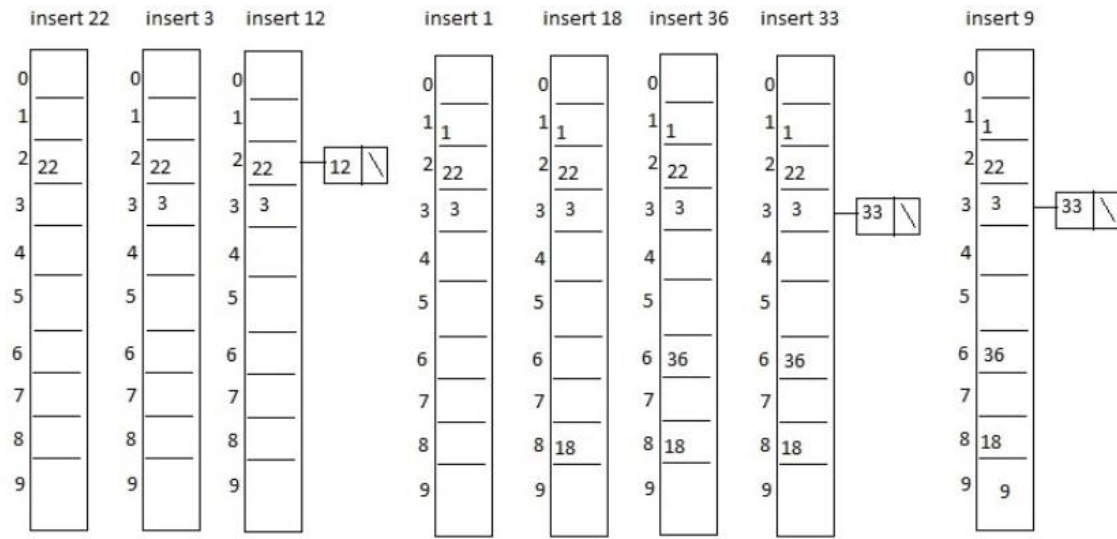
CISP 430

03/26/2024

Prof Ross

Hashing

1.



insert 22	insert 3	insert 12	insert 1	insert 18	insert 36	insert 33	insert 9
0	0	0	0	0	0 36	0 36	0 36
1	1	1	1 1	1 1	1 1	1 1	1 1
2 22	2 22	2 22	2 22	2 22	2 22	2 22	2 22
3	3 3	3 3	3 3	3 3	3 3	3 3	3 3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6 12	6 12	6 12	6 12	6 12	6 12
7	7	7	7	7	7	7 33	7
8	8	8	8	8 18	8 18	8 18	8 18
9	9	9	9	9	9	9	9 9

insert 22	insert 3	insert 12	insert 1	insert 18	insert 36	insert 33	insert 9
0	0	0	0	0	0	0	0
1	1	1	1 1	1 1	1 1	1 1	1 1
2 22	2 22	2 22	2 22	2 22	2 22	2 22	2 22
3	3 3	3 3	3 3	3 3	3 3	3 3	3 3
4	4	4 12	4 12	4 12	4 12	4 12	4 12
5	5	5	5	5	5	5 33	5 33
6	6	6	6	6	6 36	6 36	6 36
7	7	7	7	7	7	7	7
8	8	8	8	8 18	8 18	8 18	8 18
9	9	9	9	9	9	9	9 9

Microsoft Visual Studio Debug Console

```
Hash = 20, Index ==> 0
Hash = 18, Index ==> 8
Hash = 12, Index ==> 2
Hash = 28, Index ==> 8 => Collision Here
Hash = 27, Index ==> 7
Hash = 33, Index ==> 3
Hash = 45, Index ==> 5
Hash = 33, Index ==> 3 => Collision Here
Hash = 28, Index ==> 8 => Collision Here
Hash = 16, Index ==> 6
```

Final Table is:

Key ==> Value

```
0 ==> a
1 ==> *
2 ==> c
3 ==> w
4 ==> *
5 ==> s
6 ==> c
7 ==> f
8 ==> s
9 ==> *
```

C:\Users\roman\source\repos\Assignment 10\x64\Debug\Assignment 10.exe (process 8584) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .

2.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
1	2	3	4	5	6	7	a	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	