Q3 (a) Collision Resolution Methods:
1 - Open address.
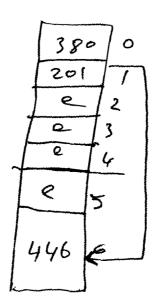2 - External or separate chaining.
3 - Coalesced chaining.

advantages of no 2:
- Deletions are easily possible.
- Number of elements can be greater than the table size.
- Retrieval operations are efficient since hash function is computed only once during retrieval.

Disadvantages of no 2.

Q3

b.   201   380   446   116   175   466   451

$$HC(key) = key \% 5.$$

$$H(201) = 201 \% 5 = 1$$

0	e
1	201
2	e
3	e
4	e
5	~~elpa~~
6	elpa

$$H(380) = 380 \% 5 = 0$$

0	380
1	201
2	e
3	e
4	e
5	~~elpa~~
6	el/m

$$H(446) = 446 \% 5 = 1$$

380	0
201	1
e	2
e	3
e	4
e	5
446	6

$H(116) = 116 \% 5 = 1$

380	0
201	1
e	2
e	3
e	4
~~446~~	5
446	6

$H(175) = 175 \% 5 = 0$

380	0
201	1
e	2
e	3
175	4
116	5
446	6

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