

$h_0(x) = x \bmod 59$
 $h_1(x) = (x \bmod 58) + 1$

$m = 59$
 $473 \bmod 59 =$
 $418 \bmod 59 =$
 $356 \bmod 59 =$
 $312 \bmod 59 =$
 $119 \bmod 59 =$
 $237 \bmod 59 =$
 $605 \bmod 59 =$
 $307 \bmod 59 =$

$(119 \bmod 58) + 1 =$
 $(237 \bmod 58) + 1 =$

| chaining | |
|----------|--|
| 0 | |
| 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 | |
| 27 | |
| 28 | |
| 29 | |
| ... | |

| linear probing | |
|----------------|--|
| 0 | |
| 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 | |
| 27 | |
| 28 | |
| 29 | |
| ... | |

| quadratic probing | |
|-------------------|--|
| 0 | |
| 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 | |
| 27 | |
| 28 | |
| 29 | |
| ... | |

| double hashing | |
|----------------|--|
| 0 | |
| 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 | |
| 27 | |
| 28 | |
| 29 | |
| ... | |

| Q3 | | delete 14 | search 22 | insert 20 | insert 28 |
|----|-----|-----------|-----------|-----------|-----------|
| 0 | NIL | | | | |
| 1 | 25 | | | | |
| 2 | 2 | | | | |
| 3 | NIL | | | | |
| 4 | 12 | | | | |
| 5 | NIL | | | | |
| 6 | 14 | | | | |
| 7 | 22 | | | | |

| Q4 | | delete 14 | search 22 | insert 20 | insert 28 |
|----|-----|-----------|-----------|-----------|-----------|
| 0 | NIL | | | | |
| 1 | 25 | | | | |
| 2 | 2 | | | | |
| 3 | NIL | | | | |
| 4 | 12 | | | | |
| 5 | NIL | | | | |
| 6 | 14 | | | | |
| 7 | 22 | | | | |