# Module 8: Lab                    Elita Danilyuk

Given a hash table of size 7, integer hash keys k, and a hash function

$$hl(k) = k\%7$$

a) In which slots are 17, 27, 29 and 42 entered?

17: 3          27: 6          29: 1          42: 0

b) Assume 17, 27, 29 and 42 have been entered using hl (as in a). Using chaining draw the hash table when the following are added.

49:
| | |
|---|---|
| 0 | 42 → 49 |
| 1 | 29 |
| 2 | |
| 3 | 17 |
| 4 | |
| 5 | |
| 6 | 27 |

70:
| | |
|---|---|
| 0 | 42 → 49 → 70 |
| 1 | 29 |
| 2 | |
| 3 | 17 |
| 4 | |
| 5 | |
| 6 | 27 |

48:
| | |
|---|---|
| 0 | 42 → 49 → 70 |
| 1 | 29 → 48 |
| 2 | |
| 3 | 17 |
| 4 | |
| 5 | |
| 6 | 27 |