Mark van Zalk

Professor Monshi

CMSC 204-21921

10/20/2025

**Hashing Lab**

**1a)**

|  |
| --- |
| 0) 13 |
| 1) 27 |
| 2) |
| 3) 109 |
| 4) 26 |
| 5) 53 |
| 6) 49 |
| 7) |
| 8) 138 |
| 9) |
| 10) 10 |
| 11) 174 |
| 12) 24 |

|  |
| --- |
| 0) 10 |
| 1) |
| 2) |
| 3) |
| 4) |
| 5) |
| 6) 26 |
| 7) 27 |
| 8) 138 |
| 9) |

**1b)**

13

53

24

174

49

109

**2)**

|  |  |  |
| --- | --- | --- |
| Key | Linear array -  (Length of  Collision Path +1) | Buckets -  (# of elements  in linked list  compared) |
| 53 | 6 | 4 |
| 138 | 9 | 9 |
| 109 | 4 | 10 |
| 49 | 7 | 11 |
| 174 | 12 | 5 |
| 26 | 5 | 7 |