```
1. 43 \% 7 = 1 \rightarrow \text{list}[1] = 43
    22 \% 7 = 1 \rightarrow COLLISION \rightarrow list[2] = 22
    15 \% 7 = 1 \rightarrow COLLISION \rightarrow list[0] = 15
    8\%7 = 1 \rightarrow COLLISION \rightarrow list[3] = 8
     12 \% 7 = 5 \rightarrow \text{list}[5] = 12
    54 \% 7 = 5 \rightarrow COLLISION \rightarrow list[6] = 54
    49 \% 7 = 0 \rightarrow COLLISION \rightarrow list[4] = 49
    list[0] = 15, list[1] = 43, list[2] = 22, list[3] = 8, list[4] = 49, list[5] = 12, list[6] = 54
2. h(k, i) = (h(k) + i + i^2) \% 7
    43 \% 7 = 1 \rightarrow list[1] = 43
    22 \% 7 = 1 \rightarrow COLLISION \rightarrow list[3] = 22
     15 \% 7 = 1 \rightarrow COLLISION \rightarrow list[7] = 15
    8\%7 = 1 \rightarrow COLLISION \rightarrow list[60] = 8
    12 \% 7 = 5 \rightarrow \text{list}[5] = 12
    54 \% 7 = 5 \rightarrow COLLISION \rightarrow list[11] = 54
    49 \% 7 = 0 \rightarrow list[0] = 49
    list[0] = 49, list[1] = 43, list[3] = 22, list[4] = 54, list[5] = 12, list[6] = 8, list[7] = 15
3. h(k, i) = ((h(k) + i + h(k))) \% 7
    43 \% 7 = 1 \rightarrow list[1] = 43
    22 \% 7 = 1 \rightarrow COLLISION \rightarrow list[2] = 22
     15 \% 7 = 1 \rightarrow COLLISION \rightarrow list[3] = 15
    8\%7 = 1 \rightarrow COLLISION \rightarrow list[5] = 8
     12 \% 7 = 5 \rightarrow COLLLISION \rightarrow list[4] = 12
    54 \% 7 = 5 \rightarrow COLLISION \rightarrow list[6] = 54
    49 \% 7 = 0 \rightarrow list[0] = 49
    list[0] = 49, list[1] = 43, list[2] = 22, list[3] = 15, list[4] = 12, list[5] = 8, list[6] = 54
4. h(k, i) = ((h(k) + i + h(k)) \% 7) / 3
    43 \% 7 = 1 \rightarrow list[0] = 43
    22 \% 7 = 1 \rightarrow COLLISION \rightarrow list[1] = 22
    15 \% 7 = 1 \rightarrow COLLISION \rightarrow list[2] = 15
    8\%7 = 1 \rightarrow COLLISION \rightarrow list[3] = 8
     12 \% 7 = 5 \rightarrow COLLLISION \rightarrow list[4] = 12
    54 \% 7 = 5 \rightarrow COLLISION \rightarrow list[5] = 54
    49 \% 7 = 0 \rightarrow \text{list}[6] = 49
    list[0] = 43, list[1] = 22, list[2] = 15, list[3] = 8, list[4] = 12, list[5] = 54, list[6] = 49
5. 43 \% 7 = 1 \rightarrow \text{list}[1][0] = 43
    22 \% 7 = 1 \rightarrow COLLISION \rightarrow list[1][1] = 22
     15 \% 7 = 1 \rightarrow COLLISION \rightarrow list[1][2] = 15
```

```
8 % 7 = 1 → COLLISION → list[1][3] = 8

12 % 7 = 5 → COLLLISION → list[5][0] = 12

54 % 7 = 5 → COLLISION → list[5][1] = 54

49 % 7 = 0 → list[0] = 49
```