Data Structures (Lab8)

1. Insert the following keys into hash table with size 10 using **separate chaining** technique

   89, 18, 49, 58, 79

2. Insert the following keys into hash table with size 10 using **linear probing** as collision resolution technique

   89, 18, 49, 58, 79

3. Insert the following keys into hash table with size 10 using **quadratic probing** as collision resolution technique

   89, 18, 49, 58, 79

4. Insert the following keys into hash table with size 10 using **double hashing** as collision resolution technique

   89, 18, 49, 58, 79

5. **By using hash2(x) = 7 _ x%7**

   Hashing Strings

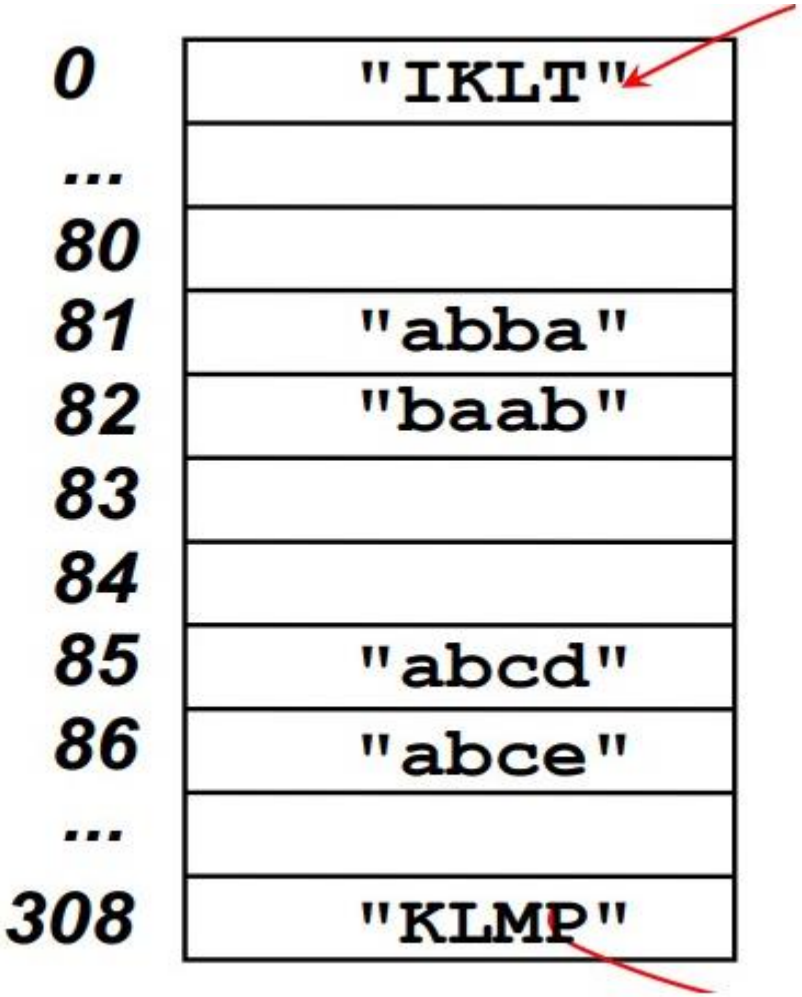
   Ex: insert "abba" , "abcd" , "abce" , "baab" into hash table with size 309

   You can use Linear probe forward by 1, inserting it at the next available slot (Optional)

$$h(s) = \left(\sum_{i=0}^{n-1} s_i * 37^i \right) \% \text{ array\_size}$$

$$\left[s_0 + s_1(37) + s_2(37)^2 + \cdots \right]$$

0	
...	
80	
81	"abba"
82	
83	
84	
85	"abcd"
86	"abce"
...	
308	



Reference: https://pages.cs.wisc.edu/~siff/CS367/Notes/hash.htm