

4) (10 pts) ALG (Hash Tables)

Insert the following numbers (in the order that they are shown....from left to right) into a hash table with an array of size 12, using the hash function, $H(x) = x \bmod 12$.

234, 344, 481, 567, 893, 178, 719, 686, 46, 84

Show the result of the insertions when hash collisions are resolved through

a) Linear Probing

b) Quadratic Probing

c) Separate Chaining Hashing

Index	a Linear	b Quadratic	c Separate Chaining
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			