```
Enter the input filename: HW5 Test Input1.txt
HashQP with the int key has:
Color: Magenta = FF00FF
Color: Black = 000000
Color: Brown = A52A2A
Color: Light Blue = ADD8E6
Color: Olive = 808000
Color: Yellow = FFFF00
Color: Red = FF0000
Color: Silver = C0C0C0
Color: Maroon = 800000
Color: Cyan = 00FFFF
Color: Blue = 0000FF
Color: Gray = 808080
Color: Dark Blue = 0000A0
Color: Purple = 800080
Color: Orange = FFA500
Color: Green = 008000
Color: White = FFFFFF
Color: Lime = 00FF00
In the HashQP class:
Table Size = 97
Number of entries = 18
Load factor = 0.18556701030927836
Number of collisions = 5
Longest Collision Run = 2
HashSC #1 with the String key has:
Color: Brown = A52A2A
Color: Cyan = 00FFFF
Color: Black = 000000
Color: Maroon = 800000
Color: Olive = 808000
Color: Green = 008000
Color: Light Blue = ADD8E6
Color: Gray = 808080
Color: Purple = 800080
Color: Lime = 00FF00
Color: Magenta = FF00FF
Color: Dark Blue = 0000A0
Color: Blue = 0000FF
Color: Orange = FFA500
Color: Red = FF0000
Color: Silver = C0C0C0
Color: White = FFFFFF
Color: Yellow = FFFF00
In the HashSC class:
Table Size = 97
Number of entries = 18
Load factor = 0.18556701030927836
```

Number of collisions = 2Longest Linked List = 2 HashSC #2 with the String key has: Color: Green = 008000 Color: Gray = 808080Color: White = FFFFFF Color: Purple = 800080 Color: Magenta = FF00FF Color: Black = 000000 Color: Yellow = FFFF00 Color: Lime = 00FF00 Color: Olive = 808000 Color: Dark Blue = 0000A0 Color: Silver = C0C0C0 Color: Light Blue = ADD8E6 Color: Brown = A52A2AColor: Blue = 0000FF Color: Red = FF0000 Color: Orange = FFA500 Color: Maroon = 800000 Color: Cyan = 00FFFF In the HashSC class: Table Size = 97Number of entries = 18Load factor = 0.18556701030927836Number of collisions = 0Longest Linked List = 1 Testing hash tables, please enter the same filename just used, Enter the input filename: HW5 Test Input1.txt Result of calling contains for Red in HashQP = true Result of calling contains for Red in HashSC = true Retrieved in HashQP, Color: Red, now trying to delete it Successfully removed from HashQP: Red Retrieved in HashSC, Color: Red, now trying to delete it Successfully removed from HashSC: Red HashQP with the int key now has: 0: Color: Magenta = FF00FF 1: Color: Black = 000000 4: Color: Brown = A52A2A 22: Color: Light Blue = ADD8E6 30: Color: Olive = 808000 34: Color: Yellow = FFFF00 43: Color: Silver = C0C0C0 48: Color: Maroon = 800000 60: Color: Cyan = 00FFFF 61: Color: Blue = 0000FF

62: Color: Gray = 808080

```
63: Color: Dark Blue = 0000A0
 79: Color: Purple = 800080
80: Color: Orange = FFA500
83: Color: Green = 008000
95: Color: White = FFFFFF
96: Color: Lime = 00FF00
HashSC #1 with the String key now has:
 8: Color: Brown = A52A2A
 19: Color: Cyan = 00FFFF
 21: Color: Black = 000000
 31: Color: Maroon = 800000
33: Color: Olive = 808000
42: Color: Green = 008000
 44: Color: Light Blue = ADD8E6 ---> Color: Gray = 808080
 52: Color: Purple = 800080 ---> Color: Lime = 00FF00
53: Color: Magenta = FF00FF
 54: Color: Dark Blue = 0000A0
56: Color: Blue = 0000FF
 61: Color: Orange = FFA500
 75: Color: Silver = C0C0C0
 86: Color: White = FFFFFF
 90: Color: Yellow = FFFF00
HashSC #2 with the String key now has:
 1: Color: Green = 008000
 8: Color: Gray = 808080
 9: Color: White = FFFFFF
 22: Color: Purple = 800080
 23: Color: Magenta = FF00FF
 34: Color: Black = 000000
35: Color: Yellow = FFFF00
 40: Color: Lime = 00FF00
 64: Color: Olive = 808000
 66: Color: Dark Blue = 0000A0
 67: Color: Silver = C0C0C0
74: Color: Light Blue = ADD8E6
75: Color: Brown = A52A2A
82: Color: Blue = 0000FF
83: Color: Red = FF0000
84: Color: Orange = FFA500
 91: Color: Maroon = 800000
 95: Color: Cyan = 00FFFF
```