

// Link for online source :

<https://www.sanfoundry.com/c-program-implement-hash-tables-chaining-with-singly-linked-lists/>

Outputs:

```
Microsoft Visual Studio Debug Console
Linked list hash:
1: Roshdy 28 9000 3
2: Mina 30 10000 4
3: Yara 19 2000 0
4: Fatma 21 3000 1
5: Ayman 33 4000 8
6: Fawzy 45 5000 8
7: Aya 26 6000 3
9: Mariam 32 8000 2

collision rate is = 0%
```

- Notice how key (8) is not there because I removed it with my function.

```
Dynamic array hash:
1: Roshdy 28 9000 3
2:
3: Yara 19 2000 0
4: Fatma 21 3000 1
5: Ayman 33 4000 8
6: Fawzy 45 5000 8
7: Aya 26 6000 3
8: Abdallah 29 7000 4
9: Mariam 32 8000 2
collision rate is: 0%

C:\Users\wifi\source\repos\assignment 4 cs2\Debug\assignment 4 cs2.exe (process 29680) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

- I think the linked list one is better just because I enjoyed coding it more, and traversing a list is easier for me than understanding the memory locations of a dynamic array.
- I went with the easy way which is using salary for my hash function as each employee had a different salary (Although I did change the salaries of some employees to be equal just for the sake of testing my code for collisions).