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Assignment 11
CSC 385

Part 1) Summing the ASCII/Unicode integer values for strings would yield numerous collisions in the resulting hashes. Example: Cat = MAIA = 280 when using ASCII decimal values. A good hash function should have minimal collisions, this proposed hash function fails that criterion.

Part 2.1) Since the load factor is 0.75, and the array size is 13, there is no resizing done when using separate chaining hashing (8/13 = 0.62). The following array can be generated using the HashMap class from the course source code:

```
0:
1:
2: Chargers
3:
4: Saints
5: 49ers --> Texans
6:
7: Steelers
8:
9:
10: Giants --> Packers --> Patriots
11:
12:
```

Part 2.2) Again, since the load factor is 0.75 and the initial array size is 13 with 8 objects being added, there is no resizing done. Here's what the array would look like using Quadratic Probing:

```
0:
1: Giants
2: Chargers
3:
4: Saints
5: Texans
6: 49ers
7: Steelers
8:
9:
10: Patriots
11: Packers
12:
```