CS 62 Quiz 7

April 10, 2015

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Consider the following hash function for strings:

H(s) = length of string s // i.e. the number of letters or characters in s

Use this hash function to add the following strings to the array shown below: car, bear, rip, snake, bob. The strings should be added in the order listed. Resolve any collisions using linear probing with an offset of 1.

|  |
| --- |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

0

1

2

32

43

53

63

73

2. Give the output of the following C++ program?

#include <iostream>

using namespace std;

int main() {

 vector<int> x;

 x.push\_back(100);

 vector<int> y = x;

 y[0] = -40;

 cout << x[0] << endl;

cout << y[0] << endl;

}