ECE326 Quiz 11, Fall 2019

Name: **Student Number:**

Given a vector as an input, we want to write a function to build a HashMap from that vector. We want to use entries of the vector as keys, and number of occurrence of each entry as value of that key (see the example in main function). Please complete the buildCounterDictionary() function.

```rust
use std::collections::HashMap;
fn buildCounterDictionary(vec: &Vec<i32>) -> HashMap<&i32,i32> {

    let mut counter = HashMap::new();
    for i in vec {
        let count = counter.entry(i).or_insert(0);
        *count += 1;
    }
    Counter



}

fn main() {
    let v1 = vec![100, 32, 57, 57, 2, 3, 3, 32];
    let counter1 = buildCounterDictionary(&v1);
    let v2 = vec![10, 10, 10, 20];
    let counter2 = buildCounterDictionary(&v2);

    //output: {100: 1, 3: 2, 57: 2, 2: 1, 32: 2}
    println!("{:?}",counter1);
    println!("{:?}",counter2); // output: {10: 3, 20: 1}
}
```