CSCE 747 - Symbolic Execution Activity
Name(s):

1. The loop body of the binary search can be modified to:

```
if (comparison < 0){
    low = mid + 1;
}
if (comparison > 0){
    high = mid -1;
}
if (comparison = 0){
    return dictValues[mid];
}
```

Demonstrate using symbolic execution that the path that traverses the false branch of all three statements is infeasible.

2. The following method calculates the sum of an array of floats.

```
float sum(int array[], int len) {
      float sum = 0.0;
      int i = 0;
      while (i < length) {
            sum = sum + array[i];
            i = i + 1;
      }
      return sum;
}
```

Write the pre- and post-conditions for this method.