**Tutorial 2**

Q1 Implement the following linear search algorithm in C and call it within main() with appropriate data.

found =0;

position = –1;

index =0;

while (index < size && !found) {

if(data[index]==key)

{ found = 1;

position = index;

break; }

index++;

}

return position;

Estimate the complexity of the above algorithm, giving reasons, in terms of Big-O.

Q2 Implement the following linear search algorithm in C and call it within main() with appropriate data.

for(ind=0; ind<size; ind++)

if(data[ind]==key) break;

return ind;

Estimate the complexity of the above algorithm, giving reasons, in terms of Big-O.