Homeworks (Functions)

1. Write a function named "sum\_from\_to" that takes two integer arguments, call them "first" and "last", and returns as its value the sum of all the integers between first and last inclusive. Thus, for example,

cout << sum\_from\_to(4,7) << endl; // will print 22 because 4+5+6+7 = 22

cout << sum\_from\_to(-3,1) << endl; // will print -5 'cause (-3)+(-2)+(-1)+0+1 = -5

cout << sum\_from\_to(7,4) << endl; // will print 22 because 7+6+5+4 = 22

cout << sum\_from\_to(9,9) << endl; // will print 9

1. Write a function named "reverse" that takes as its arguments the following:

(1) an array of floating point values;

(2) an integer that tells how many floating point values are in the array.

The function must reverse the order of the values in the array. Thus, for example, if the array that's passed to

the function looks like this:

0 1 2 3 4

5.8 | 2.6 | 9.0 | 3.4 | 7.1

then when the function returns, the array will have been modified so that it looks like this:

0 1 2 3 4

7.1 | 3.4 | 9.0 | 2.6 | 5.8

The function should not return any value.

1. Write a function named "location\_of\_largest" that takes as its arguments the following:

(1) an array of integer values;

(2) an integer that tells how many integer values are in the array.

The function should return as its value the subscript of the cell containing the largest of the values in the array.

Thus, for example, if the array that's passed to the function looks like this:

0 1 2 3 4

58 | 26 | 90 | 34 | 71

then the function should return the integer 2 as its value.

1. Write a function named "rotate\_right" that takes as its arguments the following:

(1) an array of floating point values;

(2) an integer that tells the number of cells in the array;

The function should shift the contents of each cell one place to the right, except for the contents of the last cell,

which should be moved into the cell with subscript 0 . Thus, for example, if the array passed to the function

looks like this:

0 1 2 3 4

5.8 | 2.6 | 9.1 | 3.4 | 7.0

then when the function returns, the array will have been changed so that it looks like this:

0 1 2 3 4

7.0 | 5.8 | 2.6 | 9.1 | 3.4

The function should not return a value.