**CST 231 PLTL Week 5**

**Exercise 1:**

int twos[11];

int twos\_length = 11;

for (int i = 0; i < twos\_length; i++)

{

twos[i] = pow(2, i);

}

Create a diagram that represents the array “twos” in memory after the code above has executed.

**Exercise 2:**

int ray[10];

int FirstElement=ray[?];

int LastElement=ray[?];

for(int i=?;i<?;i?)

{

ray[?]=?

};

For the above code fill in the question marks with the correct answer. Fill in 2 different ways in the for loop, 1 to loop going up through the array another to loop going down through the array.

**Exercise 3:**

Create a secret word game. Put a secret word into a text array. Allow the user to make 5 guesses, after each wrong guess give the user a hint about the secret word. If the user guesses correct let the user know and exit the loop.

**Exercise 4:**

Write a program that asks the user to enter 10 integers into an array, and an integer value “V”.

The program must search the array for the value “V”; if it exists in the array then print its

index. Then remove the first occurrence of “V” in the array, shifting each following element

left, and adding a zero at the end of the array. The program must then print the final array.

e.g.:

Array = 1,4,2,5,7,5,3,4,6,9

V = 4

Resulting array:

1,2,5,7,5,3,4,6,9,0