Problem2.docx

**void** **remove**()

{

currentSize--;

}

**int** **getValue**(**int** i)

{

**if**(i > currentSize)

**return** -1;

**else**

**return** arr[i];

}

1. My remove function and getValue function will both run in O(1) because they do not have to access multiple elements of the array when they are called. The remove function will simply make the array smaller (since the add function adds elements to the end of the array) and the last value will disappear as you add more values to it. The getValue can simply access the index in the array.

**void** **add**(**int** a)

{

**for**(**int** i = currentSize; i >= 0; i--)

{

arr[i + 1] = arr[i];

}

arr[0] = a;

currentSize++;

}

2. The add function will add elements to the end of the array which means I move the entire array back one position which means you will go through each element of the array.