

Practice 13: Arrays and Functions

The user wants to store a **sorted** list of positive real numbers using an array. She decides to store the numbers in the consecutive positions at the start of the array; the unused elements will be set to -1 .

She wants a function that takes an already sorted array, and adds an element to it in the correct place. The prototype is

```
void addToArray(float A[], float newVal) ;
```

where A is the array and $newVal$ the value to be added. For example if C contains the values 1, 4, 6.5, 9, -1 , -1 before, and `addToArray(C,7.7)` is called, then C will now contain the values 1, 4, 6.5, 7.7, 9, -1 .

Provide code for the function. You may assume that there is enough room in the array.