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

```c
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.