

1. Write a function which takes N and returns 1 if N is a member of Fibonacci sequence else returns 0.
2. Write a function which takes an array and number of elements as an argument and sorts the array using selection sort.

Function Prototype: **void selectionsort(int arr[], int N);**

3. Write a function for binary search. (arr is address of first element of the array, N is number of elements, X is the element to be searched). It should return the index of the element in the array or -1 if not found.

Function Prototype: **int binarySearch(int arr[], int N, int X);**

4. Write a function, which takes an array and removes duplicates from the array while keeping the order of non duplicate elements the same as the original array.

Function Prototype: **void removeDuplicates(int arr[], int N);**

5. Write a function which takes an arrays of positive and negative numbers and returns true if there is a subarray[consecutive elements] with 0 sum.

Function Prototype: **bool isThereAZeroSubArray(int arr[], int N);**

6. Read about Insertion Sort and implement a function which sorts using insertion sort.

7. Convert find median of two sorted arrays into a function.

Function Prototype: **int getMedianValue(int arr1[], int arr2[], int N);**