

School of computer application

CA 1st
Of
Advance Data Structure (CAP-680)
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Submitted to:

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Que-1 Traversing array elements and binary search?

```
int binarySearch(int a[], int beg, int end, int val)
  if(end >= beg)
      mid = (beg + end)/2;
      else if(a[mid] < val)</pre>
          return binarySearch(a, mid+1, end, val);
         return binarySearch(a, beg, mid-1, val);
int a[] = \{10, 12, 24, 29, 39, 40, 51, 56, 70\};
int res = binarySearch(a, 0, n-1, val); // Store result
cout<<a[i]<<" ";
if (res == -1)
```

Output:

```
The elements of the array are - 10 12 24 29 39 40 51 56 70
Element to be searched is - 51
Element is present at 7 position of array[1] + Done "/us erm} 0<"/tmp/Microsoft-MIEngine-In-e0tjyvkd.o2h" 1>"/tmp/Microsoft-MIEngine-Oualright@alright:~/Desktop/programming/DSA$
```