## **GTU CSE 241 / 501 Quiz**

Std Code: 330

 Std Number:
 2 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 5 | 6 |

```
bool search(int *arr, int key, int size){
    if(!arr || size == 0)
        return false;
    if(size == 1 && key != arr[0]){
        return false;
    }
    if(key == arr[0]){
        return true;
    }
    return search(&arr[1], key, size -1);
} // &arr[1] is actually *arr + sizeof(int) !!
```

```
vector<int> findMinMax(const vector<int> vec, int size, int min, int max, int index){
       // we assume min is MaxInt max is -MaxInt-1
       // index is 0 at the beginning
       if(index == size){
                vector<int> result(2);
                result[0] = min;
                result[1] = max;
                return result;
        }
       if(vec[index] < min)
                min = vec[index]
                                    we didnt write else if
       if(vec[index] > max) //
                max = vec[index] // because in size=1 min =max
       return findMinMax(vec, size, min, max, index + 1);
}
```