

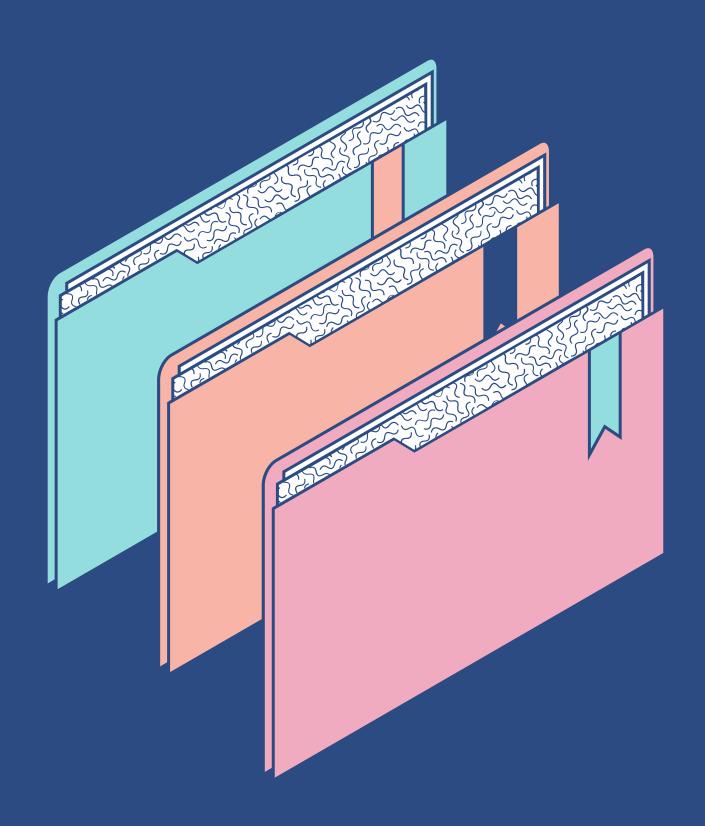
# ITP ASSIGNMENT -1

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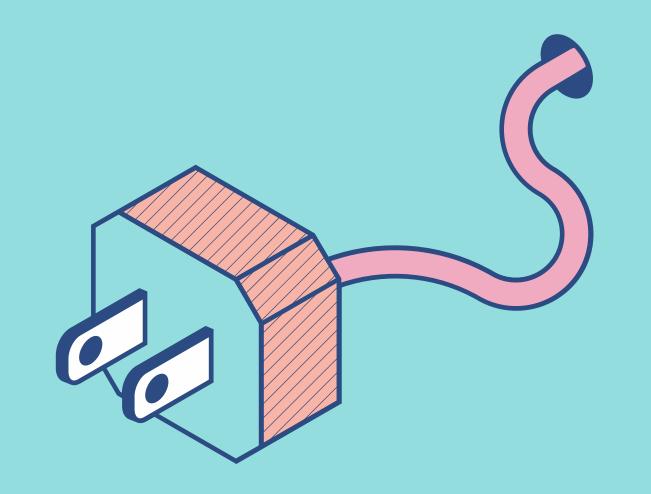
### PROBLEM STATEMENT

Write a C program

- To check the number of duplicates elements in an array .
- To delete the duplicate elements from the array.

## Techniques used

LOOPS(FOR LOOPS SPECIFICALLY)
IF STATEMENTS
NESTED FOR LOOPS





- To include complete duplicate components in a given cluster we really want three loops. Run an external loop from 0 to estimate.
- This loop is utilized to choose every component of the ARRAY and check next ensuing components for copies of components utilizing one more settled loop.
- Run one more inward loop to see the first copy of the current exhibit component
- Inside the inward loop ,check for a copy component. In the event that a copy component is found, increase copy count. Which is if(arr[i] == arr[j]) then, at that point, count++.

# STEP2 :To Remove Duplicate Elements from an Array:

1 \_\_\_\_\_ 2 \_\_\_\_ 5

Use for loop
to read the
elements of
an array
and store in
arr[i]
variable.

duplicate
element is
encountered

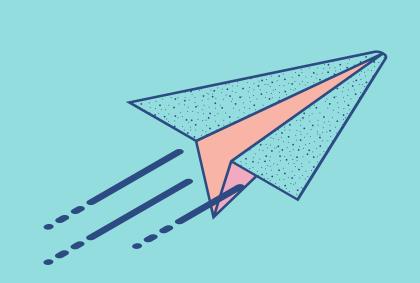
delete the duplicate element from an array

the size of
array is
decrement by
1 such that,
size = size - 1

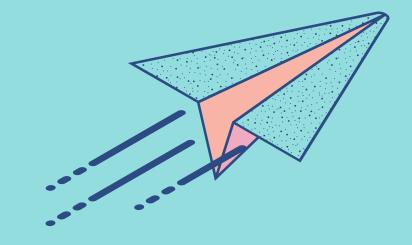
After that, print the unique elements of an array

### ALGORITHM for (i = 0; i < SIZE; i++)

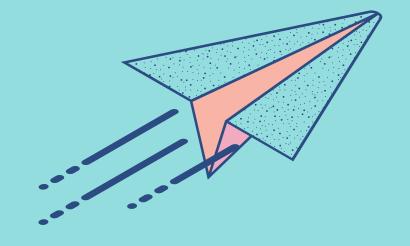
```
scanf("%d", &arr[i]);
for (i = 0; i < SIZE; i++)
   for (j = i + 1; j < SIZE; j++)
        if (arr[i] == arr[j])
            COUNT++;
            for (k = j; k < SIZE; k++)
                arr[k] = arr[k + 1];
            SIZE--;
            j--;
```



### CONCLUSION



HERE WE HAVE CONCLUDED WORKING OF A C PROGRAM WHICH COUNTS THE NUMBER OF DUPLICATE ELEMENTS IN AN ARRAY AND DELETE THOSE DUPLICATE ELEMENTS.



#### REFERENCES

https://www.javatpoint.co m/remove-duplicateelements-from-an-arrayin-c

C program to delete
duplicate elements from
array - Codeforwin



























































