

Remove Duplicates from an array

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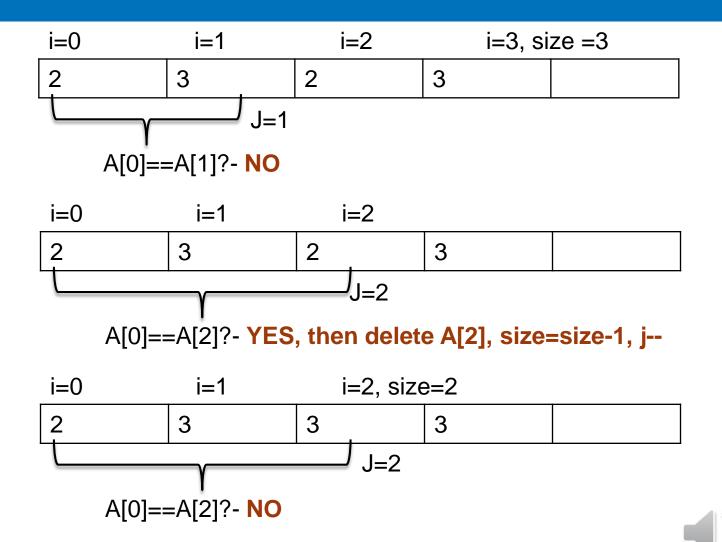


Remove duplicate elements in an array

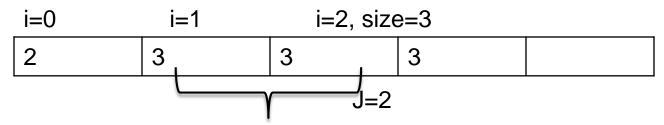
```
C:\Windows\system32\cmd.exe
Enter size of the array : 10
Enter elements in array : 2 3 4 2 2 2 2 5 3 4
Array elements after deleting duplicates : 2 3
(program exited with code: 0)
Press any key to continue . . . _
```

Remove duplicate elements in an array





Remove duplicate elements in an array



A[1]==A[2]?- YES, then delete A[2], size=size-1, j--

i=0 i=1 ,size=2

OUTPUT A[]





```
int duplicateRemoval(int arr[],int size)
    { int i,k,j;
for(i=0; i<size; i++)
for(j=i+1; j<size; j++)
if(arr[i] == arr[j]) /* If any duplicate found */
/* Delete the current duplicate element */
for(k=j; k<size; k++)</pre>
arr[k] = arr[k + 1];
size--; /* Decrement size after removing duplicate element .*/
/* If shifting of elements occur then don't increment j */
return(size); }
```

```
void duplicateRemoval(int arr[],int *size)
    { int i,k,j;
Modified code- size is not
     for(i=0; i<*size; i++)
                                                       returned. But passed as
                                                       reference
       for(j=i+1; j<*size; j++)
if(arr[i] == arr[j]) /* If any duplicate found */
for(k=j; k<*size; k++) /* Delete the current duplicate element */
arr[k] = arr[k + 1];
(*size)--; /* Decrement size after removing duplicate element */
j--; /* If shifting of elements occur then don't increment j */
```

```
int duplicateRemoval(int arr[],int size)
{ int i,j;
Modified code: Have delete as
     for(i=0; i<size; i++)
a function
for(j=i+1; j<size; j++)
if(arr[i] == arr[j]) /* If any duplicate found */
/* Call Delete function to delete the current duplicate element */
Delete(arr,j,size);
/* Decrement size after removing duplicate element */
size--;
/* If shifting of elements occur then don't increment j */
j--;
void Delete(int arr[],int j,int size)
for(int k=j; k<size; k++)</pre>
return(size);
arr[k] = arr[k + 1];
```

Namah Shivaya

