

```
1  #include<stdio.h>
2  void main()
3  {
4      int a[20], i, j, k, n;
5
6      printf("Enter array size: ");
7      scanf("%d", &n);
8      printf("Enter %d array element: ", n);
9
10     for(i = 0; i < n; i++)
11     {
12         scanf("%d", &a[i]);
13     }
14
15     printf("After Duplicate element remove :
16 ");
17     for(i = 0; i < n; i++)
18     {
19         for(j = i+1; j < n; )
20         {
21             if(a[j] == a[i])
22             {
23                 for(k = j; k < n; k++)
24                 {
25                     a[k] = a[k+1];
26                 }
27                 n--;
28             }
29             else
30             {
31                 j++;
32             }
33         }
34     }
35     for(i = 0; i < n; i++)
36     {
```

```

5
6     printf("Enter array size: ");
7     scanf("%d", &n);
8     printf("Enter %d array element: ", n);
9
10    for(i = 0; i < n; i++)
11    {
12        scanf("%d", &a[i]);
13    }
14
15    printf("After Duplicate element remove :
16    ");
17    for(i = 0; i < n; i++)
18    {
19        for(j = i+1; j < n; )
20        {
21            if(a[j] == a[i])
22            {
23                for(k = j; k < n; k++)
24                {
25                    a[k] = a[k+1];
26                }
27                n--;
28            }
29            else
30            {
31                j++;
32            }
33        }
34
35        for(i = 0; i < n; i++)
36        {
37            printf("%d ", a[i]);
38        }
39
40    }

```

```
string s1 : HELLO!  
String s1 Copy to String s2 : HELLO!
```



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```
1  #include <stdio.h>
2  int main()
3  {
4      char s1[]="HELLO!", s2[200], i;
5      printf("string s1 : %s\n", s1);
6
7      for (i = 0; s1[i] != '\0'; ++i)
8      {
9          s2[i] = s1[i];
10     }
11
12     s2[i] = '\0';
13     printf("String s1 Copy to String s2 : %s",
14 s2);
15     return 0;
16 }
```

Enter a string: is a palindrome



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```
1  #include <stdio.h>
2  #include <string.h>
3
4  int main(){
5      char string1[50];
6      int i, length;
7      int flag = 0;
8
9      printf("Enter a string:");
10     scanf("%s", string1);
11     length = strlen(string1);
12
13     for(i=0;i < length ;i++){
14         if(string1[i] != string1[length-i-1]){
15             flag = 1;
16             break;
17         }
18     }
19     if (flag) {
20         printf("%s is not a palindrome",
string1);
21     }
22     else {
23         printf("%s is a palindrome", string1);
24     }
25     return 0;
26 }
```

Number is : 20

Number to Binary Convert : 1 0 1 0 0



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```
1  #include <stdio.h>
2  int main()
3  {
4      int n = 20;
5      int binaryNum[16];
6      int i = 0;
7      int result;
8      printf("Number is : %d",n);
9      printf("\nNumber to Binary Convert : ");
10     while (n > 0)
11     {
12         binaryNum[i] = n % 2;
13         n = n / 2;
14         i++;
15     }
16     for (int j = i - 1; j >= 0; j--)
17     {
18         result = binaryNum[j];
19         printf("%d ",result);
20     }
21     return 0;
22 }
```



```

1  #include <stdio.h>
2  int main()
3  {
4      int arr[500];
5      int size, i, toSearch, found;
6      printf("***** Search A Given
Value ! *****\n");
7      printf("Enter size of array: ");
8      scanf("%d", &size);
9      printf("Enter elements in array: ");
10
11     for(i=0; i<size; i++)
12     {
13         scanf("%d", &arr[i]);
14     }
15
16     printf("Enter element to search: ");
17     scanf("%d", &toSearch);
18     found = 0;
19
20     for(i=0; i<size; i++)
21     {
22         if(arr[i] == toSearch)
23     {
24         found = 1;
25         break;
26     }
27     }
28     if(found == 1)
29     {
30         printf("%d is found at position %d",
toSearch, i + 1);
31     }
32     else
33     {
34         printf("%d is not found in the array",
toSearch);

```

TAB { } () " &

RUN

***** Search A Given Value !

Enter size of array: Enter elements
in array: Enter element to search: 0
is not found in the array



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