

1. Write a program to reverse an array without using an additional array?
19. Write a program to print an array of random numbers in reverse order.

```
#include <stdio.h>
#include <string.h>

int main()
{

    int a[100]={1,3,4,2,5};
    int n=5;
    int i,j,temp;

    for(i=0,j=n-1;i<j;i++,j--){
        temp=a[i];
        a[i]=a[j];
        a[j]=temp;
    }
    for(i=0;i<n;i++){
        printf("%d",a[i]);
    }

    return 0;
}
```

2. How to merge two unsorted arrays in sorted order ?
4. Write a program to merge and sort elements of two different arrays
38. Write a program to merge two arrays of the same size sorted in descending order.

```
#include <stdio.h>

int main()
{

    int a[100]={2,5,7,4,1};
    int b[100]={3,6,8,9,10};
    int c[100];
    int n1=5,n2=5,i,j,k=0,temp;
    int n3=n1+n2;

    for(i=0;i<n3;i++){
        c[i]=a[i];
        if(i>n1-1){
            c[i]=b[k];
            k++;
        }
    }
    for(i=0;i<n3-1;i++){
        for(j=i+1;j<n3;j++){
            if(c[i]>c[j]){
```

```

        temp=c[i];
        c[i]=c[j];
        c[j]=temp;
    }
}
}
printf("Sorteed\n");
for(i=0;i<n3;i++){
    printf("%d",c[i]);
}

return 0;
}

```

3. How to merge two sorted arrays?

```
#include <stdio.h>
```

```

int main()
{

    int a[100]={1,2,3,4,5};
    int b[100]={6,7,8,9,10};
    int c[100];
    int n1=5,n2=5,i,j,k=0,temp;
    int n3=n1+n2;

    for(i=0;i<n3;i++){
        c[i]=a[i];
        if(i>n1-1){
            c[i]=b[k];
            k++;
        }
    }

    printf("Sorteed\n");
    for(i=0;i<n3;i++){
        printf("%d",c[i]);
    }

    return 0;
}

```

5. Write a program to print all unique elements in an array.
12. Write a program to print all unique elements in an array