

```
1: int arr[5]={-2,-1,0,1,2}, i;
   for(i=0;i<=4;i++)
       arr[i]=arr[5-i]-arr[i];
   for(i=0;i<=4;i++)
       printf("\n %d",arr[i]);
```

```
2: int x[ ]={9,8,7,6,5,4,3,2,1};
   for(i=1;i<5;i++)
       x[x[i]]=i;
   for(i=0;i<9;i++)
       printf("%d",x[i]);
```

```
3: int x[ ]={1,2,3,4,5,6,7,8,9};
   for(i=4;i>=8;i++)
       x[x[i]]=x[i];
   printf("%d",x[i]);
```

```
4: int x[ ]={9,8,7,6,5,4,3,2,1};
   for(i=1;i<5;i++)
       x[x[i]]=x[i];
   for(i=0;i<9;i++)
       printf("%d",x[i]);
```

```
5: int arr[5]={10,11,12,13,14}, i;
   for(i=0;i<=4;i++)
       printf("\n%d-%d", i, arr[i]);
```

```
6: int arr1[]={10,20,30,40,50};
   int arr2[]={1,2,3,4,5};
   for(i=0;i<5;i++)
       printf("\n%d+%d",arr1[i],arr2[i]);
```

```
7: int arr[]={10,20,30,40,50};
   for(i=0;i<4;)
       printf(" %d",arr[++i]);
```

```
8: int arr[5] = {1, 2, 3, 25, 7};
   a = ++arr[1];
   b = arr[1]++;
   c = arr[a++];
   printf("%d,%d,%d\n", a, b, c);
```

```
9: int arr[10]={9,7,4,7};
   printf(" %d",sizeof(arr));
```

```
10: int arr[8]={2},i;
    for(i=0;i<8;i++)
        printf(" %d",arr[i]);
```

```
11: int arr[10],i,x;
    for(i=1;i<10;i++)
        {
            x = (i+1)%2;
            arr[i] = x && i;
        }
    for(i=1;i<10;i++)
        printf(" %d",arr[i]);
```

```
12: int arr[]={9,7,4,7};
    printf(" %d",sizeof(arr));
```

```
13: int arr[]={};
    printf(" %d",sizeof(arr));
```

```
14: int arr[10],i,x;
    for(i=1;i<10;i++)
        {
            x = (i+1)%2;
            arr[i] = x || i;
        }
    for(i=1;i<10;i++)
        printf(" %d",arr[i]);
```

```
15: int a=65;
    char arr[3],i;
    arr[0]=a+1;
    arr[1]=a+2;
    arr[2]=a+3;
    for(i=0;i<3;i++)
        printf("%c ",arr[i]);
```

```
16: char arr[] = {'\b','\b','.'};
    int i;
    printf("SSG");
    for(i=0;i<3;i++)
        printf("%c",arr[i]);
    printf("Mishra");
```

```

17. int arr[]={2},i;
    for(i=0;i<8;i++)
        printf(" %d",arr[i]);
-----

18. int arr[] = {10,20,30,40};
    printf("%d ", *(arr+2));
-----

20. int i,arr[] = {10,20,30,40};
    for(i=0;i<4;i++)
        printf("%u", (arr+i));
    Note: Assume base address is 1054
-----

21. int a[][3] = { { 1,2},{3,4},{5,6}}, i,j;
    for(i=0;i<3;i++)
    {
        for(j=0;j<3;j++)
            printf(" %d",a[i][j]);
        printf("\n");
    }
-----

22. int a[2][3] = { { 1,2},{3,4},{5,6}}, i,j;
    for(i=0;i<3;i++)
    {
        for(j=0;j<3;j++)
            printf(" %d",a[i][j]);
        printf("\n");
    }
-----

23. int a[3][2] = { { 1,2},{1,4},{5,6}}, i,j;
    for(i=0;i<2;i++)
    {
        for(j=0;j<3;j++)
            printf(" %d",a[i][j]);
        printf("\n");
    }
-----

24. int a[3][3] = { { 10,20,30},{4,5,6},{1,0,1}};
    int i,j;
    printf("%d", a[a[2][1]][1]);
-----

25. int b[]={2,1,0},i,j;
    int a[3][3] = { { 10,20,30},{4,5,6},{7,8,9}};
    printf("%d", a[b[0]][1]);
-----

```

```

26. int b[]={10,20,30,40,50},i,j;
    int a[3][3] = { { 10,20,30},{4,5,6},{7,8,9}};
    printf("%d", b[a[1][0]]);
-----

27. int b[]={10,20,30,40,50},i,j;
    int a[3][3] = { { 1,2,3},{4,5,6},{7,8,9}};
    printf("%d", b[a[0][1]][0]);
-----

28. int arr[45][65];
    print("%u",arr[15][55]);

```

Assume- Address of arr[0][0] is 1020. a, d size of int is 4 bytes

```

29. int a[3][3]={ {1,2,3},{4,5,6},{7,8,9}};
    printf("%p ", a[1]);

```

Assume - Address of a[0][0] is 1020. Size of int is 4 bytes.

```

30. int a[][]={ {1,2,3},{4,5,6},{7,8,9}};
    printf("%d",a[1][1]);

```