

Enter total number of elements: 10

Enter array elements:

Enter element 1: 1

Enter element 2: 2

Enter element 3: 3

Enter element 4: 4

Enter element 5: 5

Enter element 6: 6

Enter element 7: 7

Enter element 8: 8

Enter element 9: 9

Enter element 10: 10

Array elements after swapping adjacent elements:

2

1

4

3

6

5

8

7

10

9

```
/*C program to swap adjacent elements of an one dimensional array.*/
```

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

```
#define MAX 100
```

```
int main()
```

```
{
```

```
    int arr[MAX],n,i;
```

```
    int temp;
```

```
    printf("Enter total number of elements: ");
```

```
    scanf("%d",&n);
```

```
    //value of n must be even
```

```
    if(n%2 !=0)
```

```
    {
```

```
        printf("Total number of elements should be EVEN.");
```

```
        return 1;
```

```
    }
```

```
    //read array elements
```

```
    printf("Enter array elements:\n");
```

```
    for(i=0;i < n;i++)
```

```
    {
```

```
        printf("Enter element %d:",i+1);
```

```
        scanf("%d",&arr[i]);
```

```
    }
```

```
    //swap adjacent elements
```

```
    for(i=0;i < n;i+=2)
```

```
    {
```

```
        temp    = arr[i];
```

```
        arr[i]  = arr[i+1];
```

```
        arr[i+1]= temp;
```

```
    }
```

```
    printf("\nArray elements after swapping adjacent elements:\n");
```

```
    for(i=0;i < n;i++)
```

```
    {
```

```
        printf("%d\n",arr[i]);
```

```
    }
```

```
    return;
```

}