

Problem No: 11

Problem Name: Write a c program to reverse an array using pointer.

Input

4

1 2 3 4

Output

4 3 2 1

Source Code:

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

```
void reverseArray(int *arr, int size) {
```

```
    int *start = arr;
```

```
    int *end = arr + size - 1;
```

```
    while (start < end) {
```

```
        int temp = *start;
```

```
        *start = *end;
```

```
        *end = temp;
```

```
        start++;
```

```
        end--;
```

```
    }
```

```
}
```

```
int main() {
```

```
    int size;
```

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

```
    int arr[size];
```

```
    for (int i = 0; i < size; i++) {
```

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

```
}

reverseArray(arr, size);
for (int i = 0; i < size; i++) {
    printf("%d ", arr[i]);
}

return 0;
}
```

Result and Analysis:

This program uses a void function to reverse the array. When the subfunction is called in the main function then the output is shown.