

Elite-S020-ArraysSolved Challenges **0/2**[Back To Challenges List](#)**Array Rotation Left R times****ID:11096 Solved By 718 Users**

You must implement the function **rotate(int arr[],int N,int R)** which accepts an integer array **arr** with it's size **N** and an integer **R** as the input. The function must rotate the array by shifting it R times to the left.

Boundary Condition(s): $1 \leq N \leq 10^5$ $1 \leq \text{Array element value} \leq 10^4$ $1 \leq R \leq 10^8$ **Example Input/Output 1:**

Input:

4

10 20 30 40

1000002

Output:

30 40 10 20

Explanation:

Here **R = 2**After the **first** left-rotation, the integers in the array become 20 30 40 10After the **second** left-rotation, the integers in the array become 30 40 10 20

Hence the output is 30 40 10 20

Example Input/Output 2:

Input:

7

76 74 18 17 45 29 11

5

Output:

29 11 76 74 18 17 45

Max Execution Time Limit: 100 millisecs

Ambiance

C (gcc 8.x)





Reset

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

```
void rotate(int arr[],int N,int R)
{
```

```
    R = R%N;
```

```
    reverse(arr,0,N-1);
```

```
    reverse(arr,0,N-R-1);
```

```
    reverse(arr,N-R,N-1);
```

```
}
```

```
int reverse(int arr[],int start,int end)
{
```

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

```
    {
```

```
        int temp = arr[end];
```

```
        arr[end] = arr[start];
```

```
        arr[start] = temp;
```

```
        start++;
```

```
        end--;
```

```
    }
```

```
}
```

```
int main()
```

```
{
```

```
    int N,R;
```

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

```
    int arr[N];
```

```
    for(int index=0; index<N; index++)
```

```
    {
```

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

```
    }
```

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

```
    rotate(arr,N,R);
```

```
    for(int index=0; index<N; index++)
```

```
    {
```

```
        printf("%d ",arr[index]);
```

```
    }
```

```
}
```

Code did not pass the execution

— ×

**Hello.c: In function 'reverse':****Hello.c:14:9: error: expected expression before 'int'**

```
int temp = arr[end];
```

```
^~~
```

Hello.c:16:22: error: 'temp' undeclared (first use in this function)

```
arr[start] = temp;
```

```
^~~~
```

Hello.c:16:22: note: each undeclared identifier is reported only once for each function it appears in

Hello.c: At top level:

Hello.c:20:1: error: expected identifier or '(' before '}' token

```
}
```

```
^
```

Save

Run

☐ Run with a custom test case (Input/Output)