**Write a program in C to rotate an array by N positions.**

#include <stdio.h>

int main()

{

int a[100],n,i,r,j,k=0,b[100],l;

printf("Enter The Number Of Elements In A Array:\n");

scanf("%d",&n);

printf("Enter The Elements Into A Array:\n");

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

{

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

}

printf("Enter The Position From Where You Want To Rotate:\n");

scanf("%d",&r);

for(j=0;j<r;j++)

{

b[k++]=a[0];

for(l=0;l<n-j-1;l++)

{

a[l]=a[l+1];

}

}

printf("From %d Position The Values Of The Array Are :\n",r);

int x;

for(x=0;x<n-r;x++)

{

printf("%d\t",a[x]);

}

printf("\n");

printf("Before %d Position The Values Of The Array Are :\n",r);

int y;

for(y=0;y<k;y++)

{

printf("%d\t",b[y]);

}

int z,c=0;

for(z=n-r;z<n;z++)

{

a[z]=b[c++];

}

printf("\n");

printf("After Rotating From %d Position The Array Is:\n",r);

int d;

for(d=0;d<n;d++)

{

printf("%d\t",a[d]);

}

return 0;

}

**Output:**

