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Task 1:
#include<stdio.h>
void sL(int input[],int k,int n)
{
    int j;
    for(j=0; j<n; j++)</pre>
        if(j<n-k)</pre>
        {
             input[j]=input[j+k];
        }
        else
        input[j]=0;
    printf("\nMy array= ");
    for(j=0;j<n;j++)</pre>
    {
            printf("%d,",input[j]);
    }
}
int main()
    int n,k,i;
    printf("Enter Array Size= ");
    scanf("%d",&n);
    int input[n];
    printf("\nEnter Array Elements= ");
    for(i=0; i<n; i++)</pre>
    {
        scanf("%d",&input[i]);
    printf("\nEnter 'k' positions= ");
    scanf("%d",&k);
    sL(input,k,n);
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return 0;
}
TASK 2:
#include<stdio.h>
void shiftRight(int source[],int k,int size)
{
    int j;
    for(j=size-1; j>=0; j--)
    {
           if(j>=k)
            source[j]=source[j-k];
else
{
       source[j]=0;
}
    printf("\nFinal output= ");
    for(j=0;j<size;j++)</pre>
           printf("%d,",source[j]);
    }
}
int main()
    int size,k,i;
    printf("Enter Array Size= ");
    scanf("%d",&size);
    int source[size];
    printf("\nEnter Array Elements= ");
    for(i=0; i<size; i++)</pre>
    {
        scanf("%d",&source[i]);
    }
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printf("\nEnter 'k' positions= ");
    scanf("%d",&k);
    shiftRight(source,k,size);
    return 0;
}
TASK 3:
#include<stdio.h>
void rotateLeft(int source[],int k,int size)
{
       int j,m;
       for(j=0;j<k;j++)//2</pre>
              int first=0,second=first+1;
              int temp=source[0];
               for(m=0;m<size;m++)// 3 4 5 6 1 2
               {
                      source[first]=source[second];
                      first=(first+1)%size;
                      second=(first+1)%size;
                }
               source[size-1]=temp;
       for(m=0;m<size;m++)</pre>
              printf("%d,",source[m]);
       }
}
int main()
{
     int size,k,i;
    printf("Enter Array Size= ");
    scanf("%d",&size);
    int source[size];
    printf("\nEnter Array Elements= ");
    for(i=0; i<size; i++)</pre>
    {
        scanf("%d",&source[i]);
    printf("\nEnter 'k' positions= ");
    scanf("%d",&k);
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rotateLeft(source,k,size);
 return 0;
}
TASK 4:
#include<stdio.h>
void rotateRight(int source[],int k,int size)
{
       int j,m;
       for(j=0;j<k;j++)</pre>
               int first=size-1,second=first-1;
               int temp=source[size-1];
                for(m=0;m<size;m++)</pre>
                {
                      source[first]=source[second];
                      first=(first-1)%size;
                      second=(first-1)%size;
                source[0]=temp;
       for(m=0;m<size;m++)</pre>
               printf("%d,",source[m]);
       }
int main()
{
     int size,k,i;
    printf("Enter Array Size= ");
    scanf("%d",&size);
    int source[size];
    printf("\nEnter Array Elements= ");
    for(i=0; i<size; i++)</pre>
    {
        scanf("%d",&source[i]);
    printf("\nEnter 'k' positions= ");
    scanf("%d",&k);
    rotateRight(source,k,size);
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return 0;
}
TASK 5:
#include<stdio.h>
void Remove(int source[],int size,int element)
       int m,n;
       for(m=0;m<size;m++)</pre>
               if(m==element)
                      for(n=m;n<size-1;n++)</pre>
                      {
                              source[n]=source[n+1];
                      }
                      source[size-1]=0;
               }
       for(m=0;m<size;m++)</pre>
               printf("%d,",source[m]);
       }
int main()
    int size,element,i;
    printf("Enter Array Size= ");
    scanf("%d",&size);
    int source[size];
    printf("\nEnter Array Elements= ");
    for(i=0; i<size; i++)</pre>
    {
        scanf("%d",&source[i]);
    printf("\nEnter IDX for Remove= ");
    scanf("%d",&element);
    Remove(source, size, element);
}
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TASK 6:
#include<stdio.h>
void RemoveAll(int input[],int size,int element)
{
       int m,n;
       for(m=0;m<size;m++)</pre>
               if(input[m]==element)//2
                      for(n=m;n<size-1;n++)//1 3 4 0 0</pre>
                              input[n]=input[n+1];
                      input[size-1]=0;
                      m--;
               }
       }
       for(m=0;m<size;m++)</pre>
               printf("%d,",input[m]);
       }
int main()
{
      int size,element,i;
    printf("Enter Array Size= ");
    scanf("%d",&size);
    int source[size];
    printf("\nEnter Array Elements= ");
    for(i=0; i<size; i++)</pre>
    {
        scanf("%d",&input[i]);
    printf("\nEnter occurrences for Remove= ");
    scanf("%d",&element);
    RemoveAll(input, size, element);
TASK 7:
#include<stdio.h>
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void Repet(int arr[],int size)
       int m,n,k,l,count=0,j=1,count2=0;
       int arr2[size];
       int copy[size];
       for(m=0;m<size;m++)</pre>
       {
               copy[m]=arr[m];
       }
       for(m=0;m<size;m++)</pre>
               k=1;
               for(n=m+1;n<size;n++)</pre>
                       if(arr[m]==copy[n])
                         k++;
                         copy[n]=-1;
                       }
               }
               arr2[count]=k;
               count++;
       for(m=0;m<count;m++)</pre>
            for(n=m+1;n<count;n++)</pre>
            {
                    if(arr2[m]==arr2[n] && arr2[m]>1)
                    {
                            count2=1;
                    }
            }
       if(count2==1)
       {
               printf("\nTrue");
       }
       else{
               printf("\nFalse");
```

```
}
int main()
{
    int size,k,i;
    printf("Enter Array Size= ");
    scanf("%d",&size);
    int arr[size];
    printf("\nEnter Array Elements= ");
    for(i=0; i<size; i++)
    {
        scanf("%d",&arr[i]);
    }
    Repet(arr,size);
}</pre>
```