C to create two sets and perform the Difference operation on sets.

#include<stdio.h>

int main()

{

int a[10],b[10],c[10],d[10],m=0,k=0,n1,n2,l,i,j;

printf("Enter size of set A");

scanf("%d",&n1);

printf("Enter element of set");

for( i=0;i<n1;i++)

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

printf("Enter size of set B");

scanf("%d",&n2);

printf("Enter element of set");

for( i=0;i<n2;i++)

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

// logic for find A-B

for( i=0;i<n1;i++)

{

for(j=0;j<n2;j++)

{

if(b[j]==a[i])

break;

}

if(j==n2)

{

// here we check that is element already present in the set

// if present than ignore it otherwise add to the difference set

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

{

if(c[l]==a[i])

break;

}

if(l==k)

{

c[k]=a[i];

k++;

}

}

}

// logic for find B-A

for( i=0;i<n2;i++)

{

for(j=0;j<n1;j++)

{

if(b[i]==a[j])

break;

}

if(j==n1)

{

// here we check that is element already present in the set

//if present than ignore it otherwise add to the difference set

for(l=0;l<m;l++)

{

if(d[l]==b[i])

break;

}

if(l==m)

{

d[m]=b[i];

m++;

}

}

}

printf("Difference of A-B is:-\n");

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

{

printf("%d ",c[i]);

}

printf("\n");

printf("Difference of B-A is:-\n");

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

{

printf("%d ",d[i]);

}

return 0;

}

**Output**

Enter size of set AEnter element of setEnter size of set BEnter element of setDifference of A-B is:-

1 2 3

Difference of B-A is:-

7 8 9

[Execution complete with exit code 0]