

## PROGRAM

```
#include<stdio.h>

#include<stdlib.h>

void main()

{

    int ch,A[30],B[20],C[20],m,n,i;

    do

    {

        printf("\n choice to perform: ");

        printf("\n1.Union\t2.Intersection\t3.Difference\t4.Exit");

        printf("\nChoice:");

        scanf("%d",&ch);

        switch(ch)

        {

            case 1:printf("\nEnter  first set:");

                scanf("%d",&m);

                printf("\nEnter second set: ");

                scanf("%d",&n);

                if(m!=n)

                {

                    printf("\nInvalid!");

                    break;

                }

                printf("\nEnter  first set:(0/1) ");

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

                {

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

                }

                printf("\nEnter set:(0/1) ");
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for(i=0;i<n;i++)
{
    scanf("%d",&B[i]);
}

printf("\nElements of set1 union set2: ");
for(i=0;i<m;i++)
{
    C[i]=A[i] | B[i];
    printf("%d ",C[i]);
}

break;

case 2:printf("\nEnter first set: ");
scanf("%d",&m);
printf("\nEnter second set: ");
scanf("%d",&n);
if(m!=n)
{
    printf("\nInvalid!");
    break;
}

printf("\nEnter first set:(0/1) ");
for(i=0;i<m;i++)
{
    scanf("%d",&A[i]);
}

printf("\nEnter set:(0/1) ");
for(i=0;i<n;i++)
{
    scanf("%d",&B[i]);
}

```

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}

printf("\nElements of set1 intersection set2:");

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

{

    C[i]=A[i]&B[i];

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

}

break;

case 3:printf("\nEnter first set: ");

scanf("%d",&m);

printf("\nEnter second set: ");

scanf("%d",&n);

if(m!=n)

{

    printf("\nInvalid!");

    break;

}

printf("\nEnter first set:(0/1) ");

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

{

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

}

printf("\nEnter second set:(0/1) ");

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

{

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

}

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

{

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        if(A[i]==0)
            C[i]=0;
        else
        {
            if(B[i]==1)
                C[i]=0;
            else
                C[i]=1;
        }
    }
    printf("\nElements of set1 - set2: ");
    for(i=0;i<m;i++)
    {
        printf("%d ",C[i]);
    }
    break;
case 4:printf("\nProgram exit successfully!");
exit(0);
break;
default:printf("\nInvalid choice!");
};

}while(1);
}

```

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main.c

79  
80  
81  
82  
83

}  
printf("\nEnter second set:(0/1) ");  
for(i=0;i<n;i++)  
{  
scanf("%d",&b[i]);

input

choice to perform:  
1.Union 2.Intersection 3.Difference 4.Exit  
Choice:1  
Enter first set:3  
Enter second set: 3  
Enter first set:(0/1) 1  
0  
1  
Enter set:(0/1) 0  
0  
1  
Elements of set1 union set2: 1 0 1  
choice to perform:  
1.Union 2.Intersection 3.Difference 4.Exit  
Choice:3  
Enter first set: 4  
Enter second set: 4  
Enter first set:(0/1) 1  
0  
1

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main.c

79  
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83

}  
printf("\nEnter second set:(0/1) ");  
for(i=0;i<n;i++)  
{  
scanf("%d",&b[i]);

input

choice to perform:  
1.Union 2.Intersection 3.Difference 4.Exit  
Choice:1  
Enter first set:3  
Enter second set: 3  
Enter first set:(0/1) 1  
0  
1  
Enter set:(0/1) 0  
0  
1  
Elements of set1 union set2: 1 0 1  
choice to perform:  
1.Union 2.Intersection 3.Difference 4.Exit  
Choice:3  
Enter first set: 4  
Enter second set: 4  
Enter first set:(0/1) 1  
0  
1

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