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#include<iostream.h>
#include<conio.h>

void main()
{
    clrscr();
    int l1,l2,s1[50],s2[50],s[100],i;
    char ch;
    cout<<"Enter the length of s1:";
    cin>>l1;
    cout<<"\nEnter the size of s2";
    cin>>l2;
    if(l1==l2)
    {
        cout<<"\n operation is possible";
        cout<<"\nEnter s1 number in 1s and 0s";
        for(i=1;i<=l1;i++)
        {cin>>s1[i];}
        cout<<"\nEnter s2 number in 1s and 0s:";
        for(i=1;i<=l1;i++)
        {cin>>s2[i];}
        cout<<"\nA.Intersection";
        cout<<"\nB.Union";
        cout<<"\nC.difference";
        cout<<"\nEnter your choice:";
        cin>>ch;
        switch(ch)
        {
            case'A':for(i=1;i<=l1;i++)
                {s[i]=s1[i]&& s2[i];

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        cout<<s[i];
    }
break;
case'B':for(i=1;i<=l1;i++)
    {s[i]=s1[i] | s2[i];
    cout<<s[i];
    }
break;
case'C': for(i=1;i<=l1;i++)
    {s[i]=s1[i]&&!s2[i];
    cout<<s[i];
    }
break;
default:cout<<"Invalid option";
}
}
else
cout<<"operation is not possible;";
getch();
}

```

Enter the length of s1:

3

Enter the size of s23

operation is possible

Enter s1 number in 1s and 0s1

0

1

Enter s2 number in 1s and 0s:1

1

1

A.Intersection

B.Union

C.difference

Enter your choice:B

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Enter the length of s1:3

Enter the size of s23

operation is possible

Enter s1 number in 1s and 0s1

1

1

Enter s2 number in 1s and 0s:1

0

1

A.Intersection

B.Union

C.difference

Enter your choice:C

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Enter the length of s1:3

Enter the size of s2:3

operation is possible

Enter s1 number in 1s and 0s:1

0

0

Enter s2 number in 1s and 0s:1

1

1

A.Intersection

B.Union

C.difference

Enter your choice:A

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