



union.cxx



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sub.cxx

union.cxx

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 void main()
4 {
5     int ch,A[50],B[50],C[50],m,n,i;
6     do
7     {
8         printf("\nInput choice to perform:");
9         printf("\n1.Union\t2.Intersection\t3.
Difference\t4.Exit");
10        printf("\nChoice:");
11        scanf("%d",&ch);
12        switch(ch)
13        {
14            case 1:printf("\nEnter cardinality of first
set:");
15                scanf("%d",&m);
16                printf("\nEnter cardinality of second set:");
17                scanf("%d",&n);
18                if(m!=n)
19                {
20                    printf("\nCannot perform union!");
21                    break;
22                }
23                printf("\nEnter elements of first s
";
24                for(i=0;i<m;i++)
```

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```
23 printf("\nEnter elements of first set:(0/1)");
24 for(i=0;i<m;i++)
25 {
26     scanf("%d",&A[i]);
27 }
28 printf("\nEnter elements of second set:(0/1)");
29 for(i=0;i<n;i++)
30 {
31     scanf("%d",&B[i]);
32 }
33 printf("\nElements of set1 union set2:");
34 for(i=0;i<m;i++)
35 {
36     C[i]=A[i]|B[i];
37     printf("%d",C[i]);
38 }
39 break;
40 case 2:printf("\nEnter cardinality of first set:
41 ");
42 scanf("%d",&m);
43 printf("\nEnter cardinality of second set:");
44 scanf("%d",&n);
45 if(m!=n)
46 {
47     printf("\nCannot perform inters
48     break;
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```
46     printf("\nCannot perform intersection!");
47     break;
48 }
49 printf("\nEnter elements of first set:(0/1)");
50 for(i=0;i<m;i++)
51 {
52     scanf("%d",&A[i]);
53 }
54 printf("\nEnter elements of second set:(0/1)");
55 for(i=0;i<n;i++)
56 {
57     scanf("%d",&B[i]);
58 }
59 printf("\nElements of set1 intersection set2:");
60 for(i=0;i<m;i++)
61 {
62     C[i]=A[i]&B[i];
63     printf("%d",C[i]);
64 }
65 break;
66 case 3:printf("\nEnter cardinality of first
set:");
67     scanf("%d",&m);
68     printf("\nEnter cardinality of second set:");
69     scanf("%d",&n);
70     if(m!=n)
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```
71 {
72     printf("\nCannot perform difference!");
73     break;
74 }
75 printf("\nEnter elements of first set:(0/1)");
76 for(i=0;i<m;i++)
77 {
78     scanf("%d",&A[i]);
79 }
80 printf("\nEnter elements of second set:(0/1)");
81 for(i=0;i<n;i++)
82 {
83     scanf("%d",&B[i]);
84 }
85 for(i=0;i<n;i++)
86 {
87     if(A[i]==0)
88         C[i]=0;
89     else
90     {
91         if(B[i]==1)
92             C[i]=0;
93         else
94             C[i]=1;
95     }
96 }
```

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```
93     else
94         C[i]=1;
95     }
96 }
97 printf("\nElement of set1 - set2:");
98 for(i=0;i<m;i++)
99 {
100     printf("%d",C[i]);
101 }
102 break;
103 case 4:printf("\nProgram exit successfully!");
104     exit(0);
105     break;
106 default:printf("\nInvalid choice!");
107 };
108 }while(1);
109
110 }
```



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}

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Input choice to perform:

1.Union 2.Intersection 3.Difference 4.Exit

Choice:1

Enter cardinality of first set:4

Enter cardinality of second set:4

Enter elements of first set:(0/1)1 0 0 1

Enter elements of second set:(0/1)0 1 1 0

Elements of set1 union set2:1111

Input choice to perform:

1.Union 2.Intersection 3.Difference 4.Exit

Choice:2

Enter cardinality of first set: 3

Enter cardinality of second set:3

Enter elements of first set:(0/1)1 1 0

Enter elements of second set:(0/1)1 0 0

Elements of set1 intersection set2:100

Input choice to perform:

1.Union 2.Intersection 3.Difference 4.Exit

Choice:3

Enter cardinality of first set:3

Enter cardinality of second set:3

Enter elements of first set:(0/1)1 0 1

Enter elements of second set:(0/1)1 1 1

Element of set1 - set2:000

Input choice to perform:

1.Union 2.Intersection 3.Difference 4.Exit

Choice:█