```
sub.cxx
           union.cxx
    #include<stdio.h>
   #include<stdlib.h>
```

```
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");
         printf("\nChoice:");
10
         scanf("%d", Ech);
11
         switch(ch)
12
13
    {
      case 1:printf("\nEnter cardinality of first
14
    set:");
      scanf("%d",&m);
15
      printf("\nEnter cardinality of second set:");
16
      scanf("%d",&n);
17
      if(m!=n)
18
19
         printf("\nCannot perform union!");
20
21
         break;
22
      printf("\nEnter elelments of first s
23
      for(i=0;i< m;i++)
24
```









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sub.cxx union.cxx

```
23
      printf("\nEnter elelments 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
         scanf("%d",&B[i]);
31
32
33
      printf("\nElements of set1 union set2:");
      for(i=0;i<m;i++)
34
35
         Clil=Alil|Blil;
36
         printf("%d",C[i]);
37
38
39
      break;
      case 2:printf("\nEnter cardinality of first set:
40
      scanf("%d",&m);
 41
      printf("\nEnter cardinality of second set:");
42
      scanf("%d",&n);
43
44
      if(m!=n)
45
         printf("\nCannot perform inters
46
47
         break;
 Tab
```

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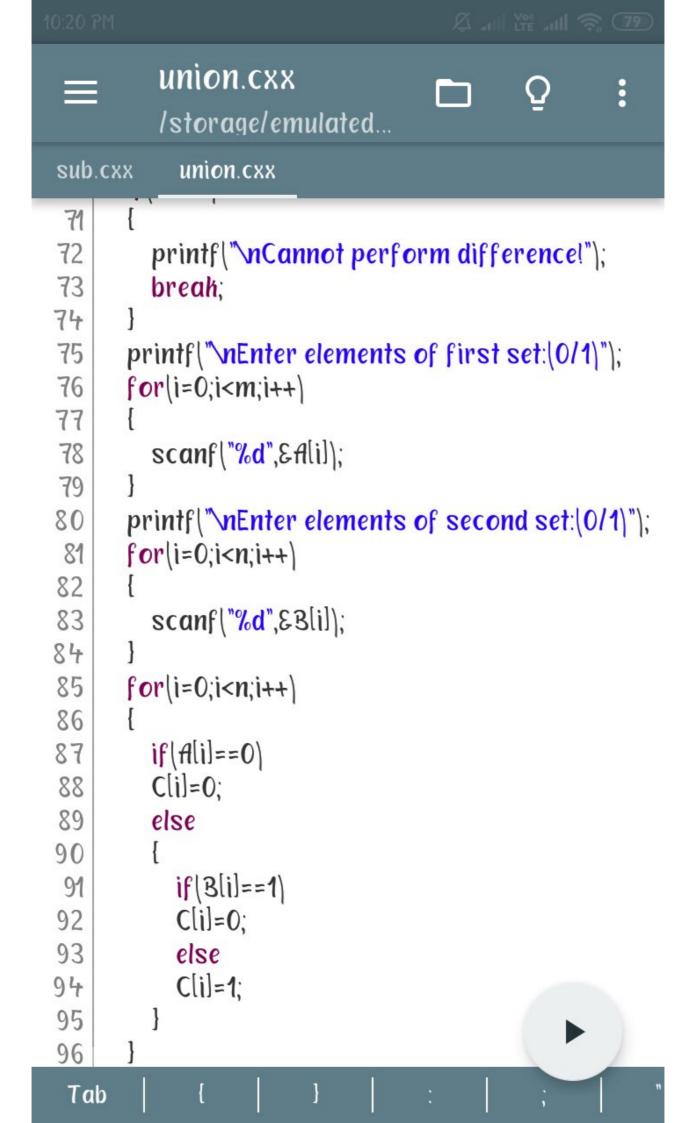


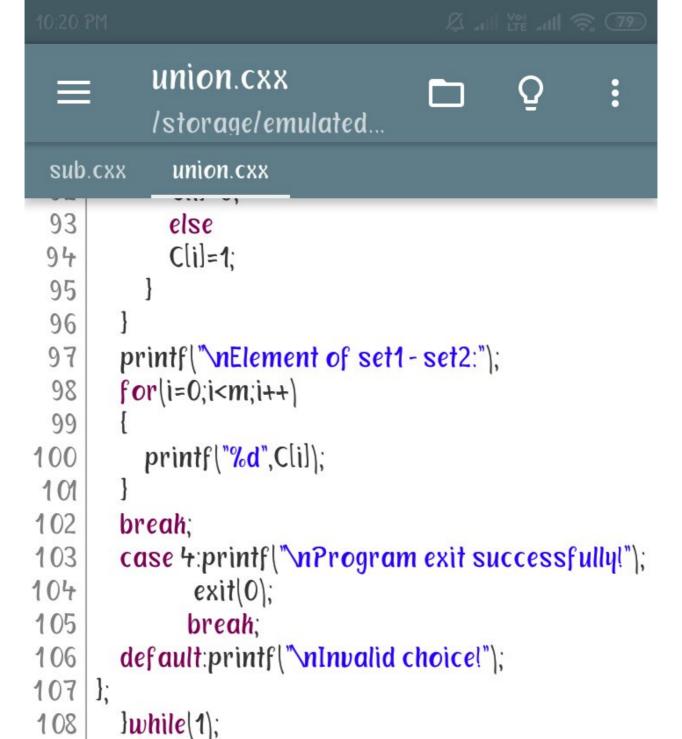


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sub.cxx union.cxx

```
printf("\nCannot perform intersection!");
46
47
         break;
48
      }
      printf("\nEnter elements of first set:(0/1)");
49
50
      for(i=0;i<m;i++)
51
         scanf("%d",&A[i]);
52
53
      printf("\nEnter elements of second set:(0/1)");
54
55
      for(i=0;i< n;i++)
56
         scanf("%d",&B[i]);
57
      }
58
59
       printf("\nElements of set1 intersection set2:");
      for(i=0;i<m;i++)
60
61
         Clil=Alil&Blil;
62
         printf("%d",C[i]);
63
64
65
      break;
      case 3:printf/"\nEnter cardinality of first
66
    set:");
       scanf("%d",&m);
67
       printf("\nEnter cardinality of second set:");
68
       scanf("%d",&n);
69
70
      if(m!=n)
```





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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 elelments 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: