

Program for disjoint set

```
#include<stdio.h>

#include<stdlib.h>

int main()

{

int ch,A[50],B[50],C[50],m,n,i;

do

{

printf("\nSelect the choice: ");

printf("\n1.Union\t2.find\t3.Exit");

printf("\nChoice: ");

scanf("%d",&ch);

switch(ch)

{

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

scanf("%d",&m);

printf("\nEnter cardinality of second set: ");

scanf("%d",&n);

if(m!=n)

{

printf("\nCannot perform union!");

break;

}

printf("\nEnter elements of first set: ");

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

{

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

}

printf("\nEnter elements of second set: ");

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 cardinality of first set: ");
scanf("%d",&m);
printf("\nEnter cardinality of second set: ");
scanf("%d",&n);
if(m!=n)
{
    printf("\nCannot perform find!");
    break;
}

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

printf("\nEnter elements of second set: ");
for(i=0;i<n;i++)
{
    scanf("%d",&B[i]); }
printf("\nElements of set1 find set2: ");
for(i=0;i<m;i++)
{

```

```

C[i]=A[i]&B[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.cpp

```

52 {
53     scanf("%d",&A[i]);
54 }
55 printf("\nEnter elements of second set: ");
56 for(i=0;i<size2;i++)

```

Input

```

Select the choice:
1.Union 2.find 3.Exit
Choice: 1

Enter cardinality of first set: 4
Enter cardinality of second set: 4

Enter elements of first set: 1
2
3
4

Enter elements of second set: 5
6
1
2

Elements of set1 union set2: 5 6 3 6
Select the choice:
1.Union 2.find 3.Exit
Choice: 2

```

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main.cpp

```

53     scanf("%d",&A[i]);
54 }
55 printf("\nEnter elements of second set: ");
56 for(i=0;i<size2;i++)

```

Input

```

Enter cardinality of second set: 4

Enter elements of first set: 1
2
3
4

Enter elements of second set: 5
6
1
2

Elements of set1 union set2: 5 6 3 6
Select the choice:
1.Union 2.find 3.Exit
Choice: 2

Enter cardinality of first set: 3
Enter cardinality of second set: 3

Enter elements of first set: 1
2
5

```

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54 }

55 printf("\nEnter elements of second set: ");

56 scanf("%d",&card2);

6

1

2

Elements of set1 union set2: 5 6 3 6

Select the choice:

1.Union 2.find 3.Exit

Choice: 2

Enter cardinality of first set: 3

Enter cardinality of second set: 3

Enter elements of first set: 1

2

5

Enter elements of second set: 3

2

1

Elements of set1 find set2: 1 2 1

Select the choice:

1.Union 2.find 3.Exit

Input

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