

# Program to print symmetric difference of two sets

```
#include <bits/stdc++.h>

using namespace std;

int main()
{
    cout<<"Enter the no. of elements:\n";
    int n;
    cin>>n;
    int a[n],b[n];
    cout<<"Enter the elements of first set: \n";
    for(int i=0;i<n;i++)
    {
        cin>>a[i];
    }
    cout<<"Enter the elements of second set \n";
    for(int i=0;i<n;i++)
    {
        cin>>b[i];
    }
    int diff1[n];
    int p=0,q=0;
    int diff2[n];
    for(int i=0;i<n;i++)
    {
        int count =0;
        for(int j=0;j<n;j++)
        {
            if(a[i]==b[j])
            {
                count =1;
            }
        }
        if(count!=1)
        {
            diff1[p]=a[i];
            p++;
        }
    }
    for(int i=0;i<n;i++)
    {
        int count =0;
        for(int j=0;j<n;j++)
        {
            if(b[i]==a[j])
```

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        {
            count =1;
        }
    }
    if(count!=1)
    {
        diff2[q]=b[i];
        q++;
    }
}
cout<<"Symmertric set difference is:\n";
for(int i=0;i<p;i++)
{
    cout<<diff1[i]<<" ";
}
for(int i=0;i<q;i++)
{
    cout<<diff2[i]<<" ";
}

return 0;
}

```

# OUTPUT

```

Enter the no. of elements:
5
Enter the elements of first set:
1 3 5 6 7
Enter the elements of second set
6 7 2 8 4
Symmertic set difference is:
1 3 5 2 8 4

...Program finished with exit code 0
Press ENTER to exit console.

```