

Answer on Question#37747- Programming, C++

1. There are two arrays A having 25 elements and B having 30 elements. Write a function to create array C that are common to A and B.

Solution.

```
#include <iostream>
using namespace std;

void Fill(int *Arr,int N)
{
    for (int i=0;i<N;i++)
    {
        Arr[i]=i;
    }
}

void Show(int *Arr,int N)
{
    for (int i=0;i<N;i++)
    {
        cout<<Arr[i]<<" ";
    }
    cout<<endl;
}

//Function that creates an array of C, which are common to A and B.
void Common( int* a, int* b, int A,int B )
{
    int *c=new int[A+B];

    memcpy(c,a,A*sizeof(int));
    memcpy(c+A,b,B*sizeof(int));

    Show(c,A+B);

    delete []c;
}

int main()
{
    int A=25;
    int B=30;

    int *a=new int [A];
    int *b=new int [B];

    Fill(a,A);
    Fill(b,B);

    Show(a,A);
    Show(b,B);

    Common( a, b, A, B);
}
```

```
delete []b;  
delete []a;  
  
system("pause");  
return 0;  
}
```

