

```
#include <conio.h>
```

```
#include <stdio.h>
```

```
void main()
```

```
{
```

```
int m, n, j, k, i;
```

```
int a1[50], a2[50], res[100];
```

```
clrscr();
```

```
printf("Enter the size of array 1n");
```

```
scanf("%d", &m);
```

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

```
{
```

```
scanf("%d", &a1[i]);
```

```
}
```

```
while (i<m && j<n)
```

```
{
```

```
if (a1[i] < a2[j])
```

```
{
```

```
res[k] = a1[i];
```

```
i++, k++;
```

```
}
```

```
res[k] = a2[j];
```

```
j++, k++;
```

```
}
```

```
while (i<m)
```

```
{
```

```
res[k] = a1[i];
```

```
i++, k++;
```

```
}
```



```
while (j < n)
```

```
{  
    res[k] = a2[j];
```

```
    j++, k++;
```

```
}
```

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

```
{
```

```
    printf("In %d", res[i]);
```

```
}
```

```
    getch();
```

```
}
```