

```

1  #include <stdio.h>
2  #include <stdlib.h>
3  #define N 5
4  #define M 7
5
6
7  int main()
8  {
9      int i,j,k, A[N], B[M], C[N+M];
10
11     for(i = 0; i< N;i++)
12     {
13         printf("entree le %d e element du tab A\n",i+1);
14         scanf("%d",&A[i]);
15     }
16     for(i = 0; i< M;i++)
17     {
18         printf("entree le %d e element du tab B\n",i+1);
19         scanf("%d",&B[i]);
20     }
21     i = 0;
22     j = 0;
23     k = 0;
24
25     while( i<N && j<M)
26     {
27         if(A[i] < B[j])
28         {
29             C[k] = A[i];
30             i++;
31         }
32         else
33         {
34             C[k] = B[j];
35             j++;
36         }
37         k++;
38     }
39
40     while( i<N )
41     {
42         C[k] = A[i];
43         i++;
44         k++;
45     }
46
47     while( j<M )
48     {
49         C[k] = B[j];
50         j++;
51         k++;
52     }
53     printf("les nouvelles valeurs du tab C sont\n");
54     for(i = 0; i< N+M;i++)
55         printf("%d \t",C[i]);
56     return 0;
57 }
58

```