2/4 –A, B,C

2/4

m =5

merging of two list

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | | 3 | 6 | | 7 | | 9 | | |
| 3 | 5 | | | 7 | | 10 | | 11 | 12 | | | 13 | |  | |  | |  | |
| 2 | | 3 | 6 | | 7 | | 9 | | | 3 | 5 | 7 | 10 | | 11 | | 12 | | 13 | |  |

- For (I=0; i<m; i++)

C[i]=a[i];

For(j=0; j<n; j++)

C[i++]=b[j]

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | | 3 | 6 | | 7 | | 9 | |
| 3 | 5 | | | 7 | | 10 | | 11 | 12 | | 13 | | j | |  | |  | |
| 2 | | 3 | 3 | | 5 | | 6 | | 7 | 7 | 9 | 10 | | 11 | | 12 | | 13 | |  |
| 2 | | 3 | 3 | | 5 | | 6 | | 7 | 7 | 9 | 10 | | 11 | | 12 | | 13 | |  |

K=0 i=0 j=0

While(i<m && j<n)

{

If (a[i] < b[j])

C[k]=a[i] i++ k++

Else

C[k]=b[j] j++ k++

}

While(i<m)

C[k]=a[i] i++ k++

While(j<n)

C[k]=b[j] j++ k++