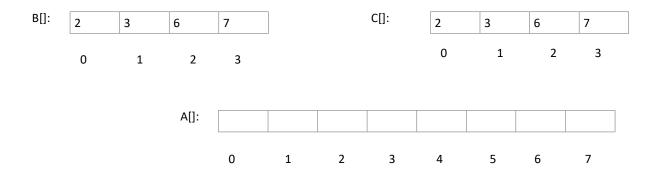
## Merge Two Sorted Arrays - Sister Problem of Merge Sort

28 August 2022

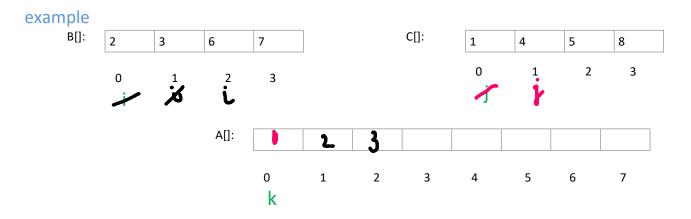
21:22

## Question: Given two sorted arrays, make another merge sorted array.



## Putting i,j,k at index 0,0,0 th index of array B,C,A respectively

## Compare ith and jth elements and whichever smaller put in k



```
void MergeSortedArrays(int *a,int *b,int*c,int n,int m)
int i=0,j=0,k=0;
while(i<n and j<m)</pre>
    if(b[i]<c[j])</pre>
         a[k++]=b[i++];
    else
        a[k++]=c[j++];
while(j<m)
    a[k++]=c[j++];
while(i<n)
    a[k++]=b[i++];
```