**COMPETITIVE PROGRAMMING:**

**PROBLEM 3:**AIM:

Find the intersection of two sorted arrays.

OR in other words,

Given 2 sorted arrays, find all the elements which occur in both the arrays.

CODE:

#include <stdio.h>

#define MAX 1000

void findIntersection(int arr1[], int n1, int arr2[], int n2) {

int i = 0, j = 0;

while (i < n1 && j < n2) {

if (arr1[i] == arr2[j]) {

printf("%d ", arr1[i]);

i++;

j++;

} else if (arr1[i] < arr2[j]) {

i++;

} else {

j++;

}

}

printf("\n");

}

int main() {

int T, n1, n2;

int arr1[MAX], arr2[MAX];

scanf("%d", &T);

for (int t = 0; t < T; t++) {

scanf("%d", &n1);

for (int i = 0; i < n1; i++) {

scanf("%d", &arr1[i]);

}

scanf("%d", &n2);

for (int i = 0; i < n2; i++) {

scanf("%d", &arr2[i]);

}

findIntersection(arr1, n1, arr2, n2);

}

return 0;

}

INPUT AND OUTPUT:  
