**COMPETITIVE PROGRAMMING:**

PROBLEM 4:

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>

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

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;

scanf("%d", &T);

while (T--) {

int n1, n2;

scanf("%d", &n1);

int arr1[n1];

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

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

}

scanf("%d", &n2);

int arr2[n2];

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

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

}

findIntersection(n1, arr1, n2, arr2);

}

return 0;

}

INPUT AND OUTPUT:

