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**Semester: 3 Sem.**

Practical Internal Exam Execution DSA

3. Write a C program to collect Common elements from two lists A and B into a list C.

#include<stdio.h>

void display(int arr[], int size){

    for(int i = 0; i<size ;i++){

        printf("%d ", arr[i]);

    }

   printf("\n"); // to change line after printing all element of array

}

int main(){

int fib[] = {1,2,3,5,8,13,21,34,55,89};

int prime[] = {2,3,5,7,11,13,17,19,23,29};

int com[10];

printf("List A Elements :\n");

display(fib,10);

printf("List B Elements :\n");

display(prime,10);

int A,B,C =0;

for(A =0; A<10;A++){

    for(B=0;B<10;B++){

        if(fib[A]==prime[B]){

            com[C]=prime[B];

            ++C;

        }

    }

}

    printf("Total Number of Common Elements : %d \n",C);

    for(int i = 0; i<C;++i){

        printf("%d ", com[i]);

    }

printf("\n");

     return 0;

}

**OutPut:**

