25 June

**C program to find if an array is a subset of another array.**

#include<stdio.h>

int isSubset(int arr1[], int arr2[],int m, int n)

{

int i = 0;

int j = 0;

for (i = 0; i < n; i++)

{

for (j = 0; j < m; j++)

{

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

break;

}

if (j == m)

return 0;

}

return 1;

}

int main()

{

int m,n;

printf("\nEnter the size of array 1 : ");

scanf("%d", &m);

printf("\nEnter the size of array 2 : ");

scanf("%d", &n);

int arr1[m],arr2[n];

int i;

printf("\nEnter the array 1 elements : ");

for(i=0;i<m;i++)

{

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

}

printf("\nEnter the array 2 elements : ");

for(i=0;i<n;i++)

{

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

}

if(isSubset(arr1, arr2, m, n))

printf("\nArray2 is a subset of Array1\n ");

else

printf("\nArray2 is not a subset of Array1\n");

getchar();

return 0;

}