## Data Structures and Algorithms CSE2001

Lab - 8 - Assignment - 1

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**Problem:** Find whether an array is subset of another array

## Code

```
public static void main (String[] args)
int m,n,i;
int arr1[] = new int[10];
int arr2[] = new int[10];
Scanner sc = new Scanner(System.in);
System.out.print("Enter the size of array 1 : ");
m = sc.nextInt();
System.out.print("Input the array 1 elements : ");
for(i=0;i<m;i++)
arr1[i] = sc.nextInt();
System.out.print("Enter the size of array 2 : ");
n = sc.nextInt();
System.out.print("Input the array 2 elements : ");
for(i=0;i<n;i++)
arr2[i] = sc.nextInt();
if(subset_arrays(arr1,arr2,n,m))
System.out.print("\nArray 2 is a subset of array 1\n");
else
System.out.print("\nArray 2 is not a subset of array 1\n");
```

## Output

```
C:\Users\yashw\Desktop\Summer\Labs>javac Subset1.java --release 8

C:\Users\yashw\Desktop\Summer\Labs>java Subset1

Enter the size of array 1 : 6

Input the array 1 elements : 1 2 3 4 5 6

Enter the size of array 2 : 3

Input the array 2 elements : 1 2 3

Array 2 is a subset of array 1

C:\Users\yashw\Desktop\Summer\Labs>java Subset1

Enter the size of array 1 : 6

Input the array 1 elements : 1 2 3 4 5 6

Enter the size of array 2 : 3

Input the array 2 elements : 7 8 9

Array 2 is not a subset of array 1

C:\Users\yashw\Desktop\Summer\Labs>
```