Shreyas Madhyu   4AL19ISO53

1] C program to find 2 array are similar

= Algorithm

Step 1: Start

Step 2: read value for n

Step 3: Enter the array element

for (i=0; i<n; i++)
read a[i]

Step 4: Enter the 2nd array element

for (j=0; j<n; j++)
read b[j]

Step 5: for (i=0; i<n; i++)
{   for (j=0; j<n; j++)
{
    if (a[i] == b[j])
      K++
}
}

Step 6: If (k==n)
print similar
else
print not similar

Step 7: Stop

Flowchart

```
                    ( Start )
                        |
                        v
                [ read n ]
                        |
                        v
            / Enter Ist array  /
            /    element       /
                        |
                        v
        false  <  for           >
         <---    ( i=0 ; i<n
                    i++ )
         |              |
         |              v
         |      / read a[i] /
         |<-------------|
                        |
                        v
            / Enter 2nd array /
            /    element      /
                        |
                        v
        false  <  for        >
         <---   ( j=0 ; j<n
         |        j++ )
         |              | true
         |              v
         |      / read b[i] /
         |<-------------|
                        |
                        v
        false  <  for            >
         <---    ( i=0 ; i<n; i++ )
         |              |
         |              v
         |      <  for          >  false
         |<---  ( j=0 ; j<n    -------->
         |  ^     j++ )               |
         |  |           |             |
         |  |           v             |
         |  |  false  <  if    >      |
         |  |<----   ( a[i]==b[i] )   |
         |  |           |             |
         |  |           v true        |
         |  |    [ k++ ]-------------->|
         |  |_____|
         |              |
         |              v
        false  <  if       >
         <---    ( k==n )
         |              |
         |              v true
         |    / Two array are  /
         |    /   similar      /
         |              |
         v              |
    / Print not similar /<----|
                        |
                        v
                    ( Stop )
```