ALGORITHM

Arr1 holds the mapping of permutation 1

Arr2 holds the mapping of permutation 2

Vis array holds if we have printed the cycle of current element or not

**INITIALIZATION:**

For i going from 0 to 9:

Arr1[i] = i

Arr2[i] = i

Vis[i] = false

**INPUT (Happens twice for each permutation):**

var start

input start

var prev = start

var curr

while (input curr != -1):

arr1[prev] = curr

prev = curr

arr1[prev] = start

(take -1 as a delimiter)

**OUTPUT:**

var cnt = 1

iterate a in 0-9:

if (vis[a] == false):

if (a != arr2[arr1[a]]):

output "product permutation cycle "+cnt+”is: “

var res = a

do{

output res+" "

res = arr2[arr1[res]]

vis[res] = true

} while (res != a)

cnt++