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4AL19CS069
G Section

STUDENT'S NAME	
CLASS	SUBJECT
ROLL NO.	DATE

C Program to count distinct elements in an array

Algorithm

1) Start
2) Input n
3) Repeat step 3
   for (i=0; i<n; i++)
   input a[i]
4) Repeat through step 4
      p ∈ a[i]
      flag = 0
   Repeat through step 4.1
   for (j=0; j<n; j++)
   {
      if (j != i)
      {
        flag++
        break }
   }
   if (flag == 2)
     count++
5) Print count
6) Stop.

Flowchart :

```
                    ( Start )
                        |
                        v
                  / input n /
                        |
                        v
        < fn i=0; i<n; i++ >
                  | True
             [ Input a[i] ]
                        |
                        v
        < fn i=0; i<n; i++ >
                        |
                        v
                  [ P = a[i] ]
                        |
                        v
                  [ flag = 0 ]
                        |
                        v
        < fa j=0; j<n; j++ >
                  | True
              / j != i \ ----> false
              \  ?  /
                        |
                        v
            / if      \ ----> false
            \ P == a[i] /
                        |
                        v
                 [ flag ++ ]
                        |
                        v
                  [ break ]
                        |
                        v
          / if        \
          \ flag == 0 /
                        |
                        v
                 [ count ]
                        |
                        v
              [ Print lsong ]
                        |
                        v
                  ( Stop )
```