```
#include<stdio.h>
int main()
{
  int g[100],h[100],i,x,y,j;
  printf("Enter elements in group G\n");
  for(i=0;i<100;i++)
  {
    printf("Enter 1 to enter new element else 0 then enter the element :");
    scanf("%d",&x);
    if(x==1)
      {
         scanf("%d",&g[i]);
           i++;
       }
    if(x==0)
       break;
  }
  printf("Enter elements in group H\n");
  for(j=0;j<100;j++)
  {
    printf("Enter 1 to enter new element else 0 then enter the element :");
    scanf("%d",&y);
    if(y==1)
      {
         scanf("%d",&h[j]);
        j++;
       }
    if(y==0)
       break;
  }
  printf("\nn(G)/n(H) = %d / %d = %d \{n(G)=Order of group G, n(H)=Order of group H",i,j,i/j);
  if(i%j==0)
    printf("\nLagrange Equation Verified");
```

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else
    printf("\nLagrange Equation Not Verified");
return 0;
}
```

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                                                               input
Enter elements in group G
Enter 1 to enter new element else 0 then enter the element :1 4
Enter 1 to enter new element else 0 then enter the element :1 3
Enter 1 to enter new element else 0 then enter the element :1 2
Enter 1 to enter new element else 0 then enter the element :1 1
Enter 1 to enter new element else 0 then enter the element :0
Enter elements in group H
Enter 1 to enter new element else 0 then enter the element :1 6
Enter 1 to enter new element else 0 then enter the element :1 5
Enter 1 to enter new element else 0 then enter the element :0
n(G)/n(H) = 8 / 4 = 2
                         {n(G)=Order of group G, n(H)=Order of group H
Lagrange Equation Verified
...Program finished with exit code 0
Press ENTER to exit console.
```