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                                                                                                                    Language C
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4
    main.c
       8 #include <stdio.h>
       9 #include <conio.h>
      10 int NN, i, count=0;
      11 int p[100], pi[100];
      int dir[100];
void PrintPerm(){
             int i;
      14
      15
             count = count + 1;
             printf( "[%2d] ", count );
      16
      for (i=1; i <= NN; ++i)
printf( "%d", p[i] );
      19 }
      20 void PrintTrans( int x, int y ){
      21 printf( " (%d %d)", x, y );
             printf( "\n" );
      22
      23 }
      24 void Move( int x, int d ){
             int z;
             PrintTrans( pi[x], pi[x]+d );
      26
            z = p[pi[x]+d];
p[pi[x]] = z;
p[pi[x]+d] = x;
      27
      28
      29
             pi[z] = pi[x];
pi[x] = pi[x]+d;
      31
      32 }
      33 void Perm ( int n ){
      34
             int i;
             if (n > NN)
PrintPerm():
      35
                                                                                                                                               09:36
                                                     [[]]
    Search the web and Windows
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7 8 Q
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                                  Stop Share
4
     main.c
               pi[z] = pi[x];
pi[x] = pi[x]+d;
       30
       31
32 }
       33 void Perm ( int n ){
               int i;
       34
               if (n > NN)
       35
                  PrintPerm();
       36
       37 -
               else{
                  Perm( n+1 );

for (i=1; i<=n-1; ++i){

   Move( n, dir[n] );
       38
       39 -
       40
                     Perm( n+1 );
       41
       42
                  dir[n] = -dir[n];
       43
       44
       45
      46 int main(){
              printf( "Enter the Value of n : " );
scanf( "%d", &NN );
printf( "\n" );
       47
       48
              for (i=1; i<=NN; ++i){
       50 -
                  dir[i] = -1; p[i] = i;
       51
                  pi[i] = i;
       52
       53
              Perm ( 1 );
printf( "\n" );
       54
      55
      56
              return 0;
      57 }
      58
      59
                                                                                                                                             ? ^ ■
                                                         Search the web and Windows
```

