

```

1  #include <stdio.h>
2  #include <conio.h>
3  int NN, i, count=0;
4  int p[100], pi[100];
5  int dir[100];
6  void PrintPerm()
7  {
8      int i;
9      count = count + 1;
10     printf( "[%2d] ", count );
11     for (i=1; i <= NN; ++i)
12         printf( "%d", p[i] );
13 }
14 void PrintTrans( int x, int y )
15 {
16     printf( "\n" );
17 }
18 void Move( int x, int d )
19 {
20     int z;
21     PrintTrans( pi[x], pi[x]+d );
22     z = p[pi[x]+d];

```

input


```

32     PrintPerm();
33     else
34     {
35         Perm( n+1 );
36         for (i=1; i<=n-1; ++i)
37         {
38             Move( n, dir[n] );
39             Perm( n+1 );
40         }
41         dir[n] = -dir[n];
42     }
43 }
44
45 int main()
46 {
47     printf( "Enter the Value of n : " );
48     scanf( "%d", &NN );
49     printf( "\n" );
50     for (i=1; i<=NN; ++i)
51     {
52         dir[i] = -1; p[i] = i;
53         pi[i] = i;
54     }
55     Perm ( 1 );
56     printf( "\n" );
57     return 0;
58 }

```

Perm(n+1).

Enter the Value of n : 3

- [1] 123
- [2] 132
- [3] 312
- [4] 321
- [5] 231
- [6] 213

I

< ...Program finished with exit code 0
Press ENTER to exit console.