

```

#include <stdio.h>

#include <conio.h>

int NN, i, count=0;

int p[100], pi[100];

int dir[100];

void PrintPerm(){

    int i;

    count = count + 1;

    printf( "[%2d] ", count );

    for (i=1; i <= NN; ++i)

        printf( "%d", p[i] );

}

void PrintTrans( int x, int y ){

    printf( " (%d %d)", x, y );

    printf( "\n" );

}

void Move( int x, int d ){

    int z;

    PrintTrans( pi[x], pi[x]+d );

    z = p[pi[x]+d];

    p[pi[x]] = z;

    p[pi[x]+d] = x;

    pi[z] = pi[x];

    pi[x] = pi[x]+d;

}

void Perm ( int n ){

    int i;

    if (n > NN)

        PrintPerm();

    else{

        Perm( n+1 );

    }

}

```

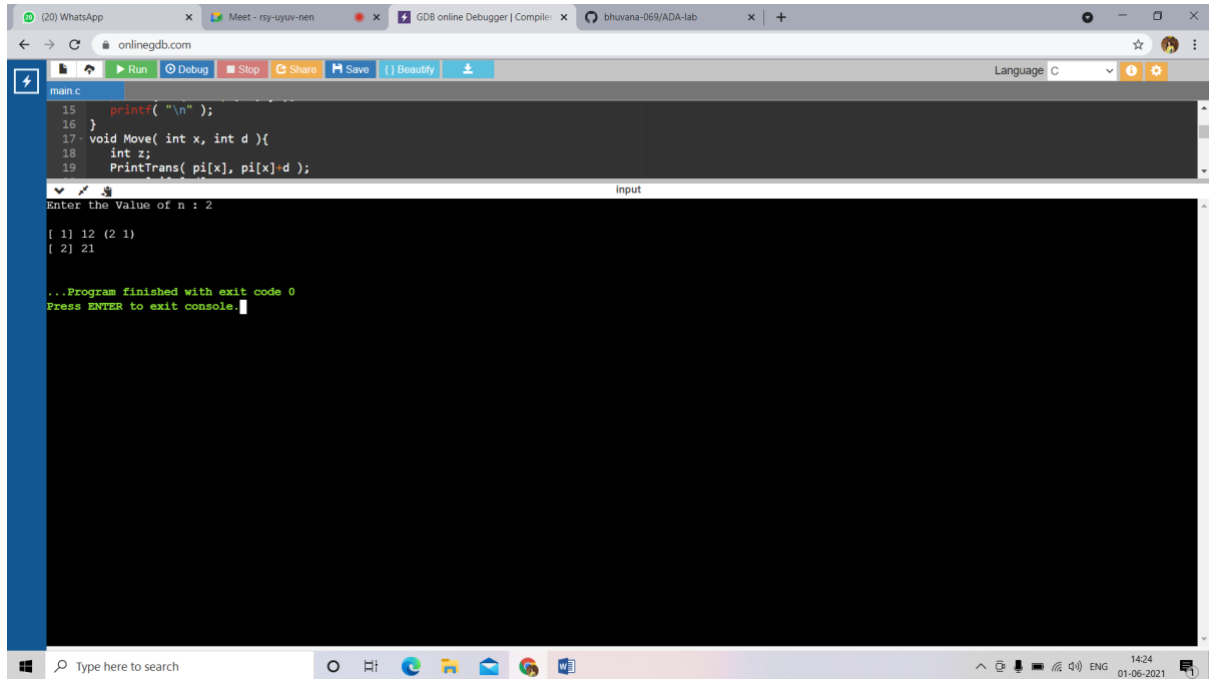
```

    for (i=1; i<=n-1; ++i){
        Move( n, dir[n] );
        Perm( n+1 );
    }
    dir[n] = -dir[n];
}
}

int main(){
    printf( "Enter the Value of n : " );
    scanf( "%d", &NN );
    printf( "\n" );
    for (i=1; i<=NN; ++i){
        dir[i] = -1; p[i] = i;
        pi[i] = i;
    }
    Perm ( 1 );
    printf( "\n" );
    return 0;
}

```

OUTPUT :



The screenshot displays a web-based GDB debugger interface. The top browser tab is titled 'onlinegdb.com'. The interface includes a menu bar with options: Run, Debug, Stop, Share, Save, and Beautify. The language is set to 'C'. The code editor shows a C program named 'main.c' with the following code:

```
15: printf( "\n" );
16: }
17: void Move( int x, int d ){
18:     int z;
19:     PrintTrans( pi[x], pi[x]-d );
```

Below the code editor is an 'Input' section with a text area containing the text 'Enter the Value of n : 2'. The output window shows the program's execution results:

```
[ 1] 12 (2 1)
[ 2] 21

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

The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with the date '14:24 01-06-2021'.