

print the given matrix in spiral form

input:

01 02 03 04

12 13 14 05

11 16 15 06

10 09 08 07

output:

01 02 03 04 05 06 07 08 09 10 11 1 13 14 15 16

program:

```
void printSpiral(int **arr,int N)
```

```
{
    int i,j,k;
    for(i=N-1, j=0; i>0; i--, j++)
    {
        //print top row
        for(k=j; k<i; k++) printf("%d ", arr[j][k]);
        //print last column
        for(k=j; k<i; k++) printf("%d ", arr[k][i]);
        //print last row
        for(k=i; k>j; k--) printf("%d ", arr[i][k]);
        //print first column
        for(k=i; k>j; k--) printf("%d ", arr[k][j]);

    }
    //if odd size matrix print the middle value
    int middle = (n-1)/2;
    if (n% 2 == 1) printf("%d", arr[middle][middle]);
}
```