**Zoho Corporation - Programming Test**

1. Write a program to print a snake matrix in the following pattern **without using arrays and if conditions**.

Input : 4

Output:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 1 | 2 | 3 | 4 |
|  |  | 8 | 7 | 6 | 5 |  |
|  | 9 | 10 | 11 | 12 |  |  |
| 16 | 15 | 14 | 13 |  |  |  |

Class snakePattern{

public static void main(Sting[] args){

Scanner cs=new Scanner(System.in);

int i,j,k=0;

System.out.println(“Enter the size”);

int n=cs.nextInt();

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

for(j=1;j<=(2\*n)-i;j++){

if(j<=n-i){

System.out.println(“ “);

}

else if(i%2==1){

k++;

System.out.println(k);

}

else{

System.out.println(k);

k--;

}

}k+=n;

System.out.println(“\n”);

}

}

}