

SPIRAL MATRIX PROGRAM

Write a program to input number of rows and columns and display the matrix as follows:-

Input : n=4

Output:

Matrices

```
01 02 03 04
12 13 14 05
11 16 15 06
10 09 08 07
```

```
import java.io.*;
class Spiral
{
int x;
int t,r,c,i,j,n;
int a[][];
boolean checkDigit(int r)
{
if(r< 10)
return true;
else
return false;
}
void show()throws IOException
{
t=1;
r=0;
c=-1;

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
System.out.println("enter the size of array:");
n=Integer.parseInt(br.readLine());
x=n;
a=new int[n][n];
while(n>0)
{
for(i=1;i<=n;i++)
{
a[r][++c]=t++;
}
for(i=1;i<=n-1;i++)
{
a[++r][c]=t++;
}
for(i=1;i<=n-1;i++)
{
a[r][--c]=t++;
}
for(i=1;i<=n-2;i++)
{
a[--r][c]=t++;
}
n=n-2;
}
System.out.println("\nMatrices\n");
for(i=0;i< x;i++)
{
for(j=0;j< x;j++)
{
if(checkDigit(a[i][j]))
System.out.print("0"+a[i][j]+" ");
else
System.out.print(a[i][j]+" ");
}
System.out.println();
}
}
public static void main(String args[])throws Exception
{
Spiral ob=new Spiral();
ob.show();
}
}
```

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