

```
1  import java.util.Scanner;
2  class Matrix
3  {
4      int arr[][];
5      int n;
6      Matrix(int n)
7      {
8          arr=new int[n][];
9          this.n = n;
10     }
11     void create()
12     {
13         for(int i=0; i<n; i++)
14         {
15             if(i%2==0)
16             {
17                 arr[i] = new int[3];
18             }else{
19                 arr[i] = new int[4];
20             }
21         }
22     }
23     void init_values()
24     {
25         for(int i=0; i<n; i++)
26         {
27             if(i%2==0)
28             {
29                 for(int j=0; j<3; j++)
30                 {
31                     arr[i][j] = i+j;
32                 }
33             }else{
34                 for(int j=0; j<4; j++)
35                 {
36                     arr[i][j] = i+j+4;
37                 }
38             }
39         }
40     }
41
42     void showMatrix()
43     {
44         for(int i=0; i<n; i++)
45         {
46             if(i%2==0)
47             {
48                 for(int j=0; j<3; j++)
49                 {
50                     System.out.print(arr[i][j] + " ");
```

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51         }
52     }else{
53         for(int j=0; j<4; j++)
54         {
55             System.out.print(arr[i][j] + " ");
56         }
57     }
58     System.out.println("");
59 }
60
61 }
62 }
63 class Question4
64 {
65     public static void main(String arg[])
66     {
67         Scanner scn = new Scanner(System.in);
68         System.out.println("Give the number of rows:");
69         int a = scn.nextInt();
70         Matrix arr = new Matrix(a);
71         arr.create();
72         arr.init_values();
73         arr.showMatrix();
74     }
75 }
76
77 // output
78 // PS C:\Users\Dell\Desktop\JAVA\Assignments\Assignment-3> java Question4
79 // Give the number of rows:
80 // 8
81
82 // 0 1 2
83 // 5 6 7 8
84 // 2 3 4
85 // 7 8 9 10
86 // 4 5 6
87 // 9 10 11 12
88 // 6 7 8
89 // 11 12 13 14
```