



nbers21_07_20.java

Cc



Saved

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main (String[] args)
5     {
6         System.out.println("Author : P. Hemanth");
7         System.out.println("SAP : 51834553");
8         int count=0;
9         int rem=0 ;
10        Scanner sc=new Scanner(System.in);
11        System.out.println("enter a number:");
12        int n= sc.nextInt();
13        while(n>0)
14        {
15            rem=n%10;
16            if(rem%2==0)
17            {
18                count++;
19            }
20            n=n/10;
21        }
22        System.out.println("no of even numbers in above
23
24
25    }
26 }
```



× Terminal



Author : P. Hemanth

SAP : 51834553

enter a number:

21345

no of even numbers in above number are:2

Process finished.



5thQuestion21_07_20.java



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```
1 import java.util.*;
2
3 // Compiler version JDK 11.0.2
4
5
6 public class Palindrome {
7
8     public static void main(String[] args) {
9
10         int num, reversedInteger = 0, remainder, originalInteger;
11         Scanner sc=new Scanner(System.in);
12         System.out.println("enter the size of the array");
13         int size=sc.nextInt();
14         int arr[]=new int[size];
15         System.out.println("enter "+size+" elements");
16         for( num=0;num<size;num++){
17             arr[num]=sc.nextInt();
18         }
19
20
21         originalInteger = num;
22
23         // reversed integer is stored in variable
24         while( num != 0 )
25         {
26             remainder = num % 10;
27             reversedInteger = reversedInteger * 10 + remainder;
28             num /= 10;
29         }
30
31         // palindrome if originalInteger and reversedInteger are equal
32         if (originalInteger == reversedInteger)
33             System.out.println(originalInteger + " is a palindrome");
34         else
35             System.out.println(originalInteger + " is not a palindrome");
36     }
37 }
38
39
```





ClockWise21_07_20.java



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```
1  import java.util.*;
2
3  // Compiler version JDK 11.0.2
4
5
6
7  class ClockWise
8  {
9
10     static int R = 4;
11
12     static int C = 4;
13
14
15
16     // A function to rotate a matrix
17
18     // mat[][] of size R x C.
19
20     // Initially, m = R and n = C
21
22     static void rotatematrix(int m,
23                               int n, int mat[][])
24     {
25
26         int row = 0, col = 0;
27
28         int prev, curr;
29
30
31
32
33         /*
34          row - Starting row index
35          m - ending row index
36          col - starting column index
37          n - ending column index
38          i - iterator
39          */
40
41         while (row < m && col < n)
42         {
43
44
45
46
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48
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100
```





ClockWise21_07_20.java



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```
43
44     i - iterator
45
46     */
47
48     while (row < m && col < n)
49
50     {
51         if (row + 1 == m || col + 1 == n)
52
53             break;
54
55
56
57         // Store the first element of next
58         // row, this element will replace
59         // first element of current row
60
61         prev = mat[row + 1][col];
62
63
64
65
66
67         // Move elements of first row from the
68
69         for (int i = col; i < n; i++)
70         {
71
72             curr = mat[row][i];
73
74             mat[row][i] = prev;
75
76             prev = curr;
77
78         }
79
80         row++;
81         // Move elements of last column from t
82
83         for (int i = row; i < m; i++)
84         {
85
86
87             curr = mat[i][n-1];
88
89             mat[i][n-1] = prev;
90
91             prev = curr;
92
93
```





ClockWise21_07_20.java



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```
92         prev = curr;
93     }
94 }
95
96     n--;
97     // Move elements of last row from the re
98
99     if (row < m)
100
101     {
102
103         for (int i = n-1; i >= col; i--)
104
105         {
106             curr = mat[m-1][i];
107
108             mat[m-1][i] = prev;
109
110             prev = curr;
111
112         }
113
114     }
115
116     m--;
117
118     // Move elements of first column from
119
120     if (col < n)
121
122     {
123
124         for (int i = m-1; i >= row; i--)
125
126         {
127
128             curr = mat[i][col];
129
130             mat[i][col] = prev;
131
132             prev = curr;
133
134         }
135
136     }
137
138     col++;
139
140 }
141
142 // Print rotated matrix
```





ClockWise21_07_20.java



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```
133
134     }
135
136     }
137
138     col++;
139
140     }
141     // Print rotated matrix
142
143     for (int i = 0; i < R; i++)
144     {
145
146         for (int j = 0; j < C; j++)
147
148             System.out.print( mat[i][j] + " ")
149
150             System.out.print("\n");
151
152     }
153
154 }
155
156
157 public static void main(String[] args)
158
159 {
160     System.out.println("author: P. Hemanth\nsa
161     System.out.println("after rotating clock w
162
163     int a[][] = { {1, 2, 3, 4},
164
165                 {5, 6, 7, 8},
166
167                 {9, 10, 11, 12},
168
169                 {13, 14, 15, 16} };
170
171
172
173
174
175     rotatematrix(R, C, a);
176
177
178
179     }
180 }
181
```



× Terminal



```
author: P. Hemanth  
sap.id-51834553  
after rotating clock wise:  
5 1 2 3  
9 10 6 4  
13 11 7 8  
14 15 16 12  
  
Process finished.
```