

## 28 строка 6766

**676** Дана целочисленная матрица размера 6x9. Найти матрицу получающуюся из данной:

б) перестановкой строк - первой с последней, второй с предпоследней и т.д.

```
1  var
2      Form1: TForm1;
3      TF: TextFile;
4      x,y: integer;
5      OriginalMatrix: TMatrix;
6      MatrixTime: TMatrix;
7      i,j: integer;
8      metca, point: integer;
9      time: real;
10
11  implementation
12  begin
13      ProcessMatrix.GetCoord(y,x);
14      ProcessMatrix.CreateMatrix(OriginalMatrix,y,x);
15      ProcessMatrix.InputMatrix(OriginalMatrix);
16      ProcessMatrix.OpenTextFile(TF);
17      WriteLn(TF, ' ');
18      WriteLn(TF, 'первоначальная матрица');
19      ProcessMatrix.WriteMatrixInTextFile(TF, OriginalMatrix);
20      //Procces
21
22      ProcessMatrix.CreateMatrix(MatrixTime,y,x);
23      MatrixTime:=OriginalMatrix;
24
25      if y mod 2 = 0 then point:=((y div 2)-1)
26      else point:=((y div 2));
27
28      for i := 0 to point do
29          for j := 0 to x-1 do
30              begin
31                  time:=MatrixTime[i,j];
32                  metca:=(y-1)-i;
33                  MatrixTime[i,j]:=MatrixTime[metca, j];
34                  MatrixTime[metca, j]:=time;
35              end;
36
37      //Output
38      WriteLn(TF, ' ');
39      WriteLn(TF, 'обработанная матрица матрица');
40      ProcessMatrix.WriteMatrixInTextFile(TF, MatrixTime);
41
42      CloseFile(TF);
43
44  end.
```

Вывод output.txt

```
1  первоначальная матрица
```

```

2
3  x:= 8, y:= 8
4    9.6515    7.2220    3.5168    3.2365    0.0095    2.1685    6.5641    0.5578
5    2.5559    0.8403    6.3382    7.1680    2.6058    4.3579    2.0047    0.0186
6    8.1614    9.1498    7.5524    6.7626    7.8870    1.3175    6.9240    8.0260
7    6.8957    9.3136    0.9595    0.9915    3.3496    9.9318    4.1519    9.2956
8    3.8713    2.6094    6.2159    9.2369    8.7687    8.0432    1.4684    4.2982
9    9.0724    3.1164    5.0222    6.9798    5.3850    9.1397    2.7914    3.9466
10   4.5432    9.4031    4.3103    5.4870    7.0925    8.0422    0.3639    1.2839
11   2.5746    0.2149    4.4311    3.4993    1.6263    2.5922    9.9413    8.1703
12
13  обработанная матрица матрица
14
15  x:= 8, y:= 8
16    2.5746    0.2149    4.4311    3.4993    1.6263    2.5922    9.9413    8.1703
17    4.5432    9.4031    4.3103    5.4870    7.0925    8.0422    0.3639    1.2839
18    9.0724    3.1164    5.0222    6.9798    5.3850    9.1397    2.7914    3.9466
19    3.8713    2.6094    6.2159    9.2369    8.7687    8.0432    1.4684    4.2982
20    6.8957    9.3136    0.9595    0.9915    3.3496    9.9318    4.1519    9.2956
21    8.1614    9.1498    7.5524    6.7626    7.8870    1.3175    6.9240    8.0260
22    2.5559    0.8403    6.3382    7.1680    2.6058    4.3579    2.0047    0.0186
23    9.6515    7.2220    3.5168    3.2365    0.0095    2.1685    6.5641    0.5578
24
25  первоначальная матрица
26
27  x:= 8, y:= 9
28    7.1184    2.3266    8.9539    1.9929    9.9304    1.5518    7.7507    5.2567
29    5.8293    9.4119    1.2961    3.3376    5.9968    0.2614    2.6630    6.4341
30    9.6722    8.0153    4.0711    6.5271    8.7831    0.9212    1.1729    2.5580
31    4.3886    5.6430    1.1544    7.9186    6.9355    4.6573    6.6465    6.2538
32    9.3263    5.9625    6.4500    0.5772    6.8005    4.1003    2.0723    3.6983
33    8.6274    3.4897    3.0775    2.9634    2.6124    3.0735    5.2481    9.3078
34    0.4151    3.2770    4.5598    9.6210    3.6804    1.2798    4.9688    9.4250
35    8.9817    8.5999    2.0109    7.8641    5.5767    9.9898    7.2141    7.0074
36    6.9759    8.6456    6.3228    3.4647    1.3235    1.7287    5.3355    7.3137
37
38  обработанная матрица матрица
39
40  x:= 8, y:= 9
41    6.9759    8.6456    6.3228    3.4647    1.3235    1.7287    5.3355    7.3137
42    8.9817    8.5999    2.0109    7.8641    5.5767    9.9898    7.2141    7.0074
43    0.4151    3.2770    4.5598    9.6210    3.6804    1.2798    4.9688    9.4250
44    8.6274    3.4897    3.0775    2.9634    2.6124    3.0735    5.2481    9.3078
45    9.3263    5.9625    6.4500    0.5772    6.8005    4.1003    2.0723    3.6983
46    4.3886    5.6430    1.1544    7.9186    6.9355    4.6573    6.6465    6.2538
47    9.6722    8.0153    4.0711    6.5271    8.7831    0.9212    1.1729    2.5580
48    5.8293    9.4119    1.2961    3.3376    5.9968    0.2614    2.6630    6.4341
49    7.1184    2.3266    8.9539    1.9929    9.9304    1.5518    7.7507    5.2567
50
51  первоначальная матрица
52
53  x:= 2, y:= 2
54    2.5355    4.0266
55    2.2470    4.2607
56
57  обработанная матрица матрица
58
59  x:= 2, y:= 2

```

60	2.2470	4.2607
61	2.5355	4.0266