

```

1  #include <iostream>
2  #define TAM 4
3
4  using namespace std;
5
6  float AlgoritmoMayorClasico(int m[][TAM], int pf, int uf, int pc, int uc){
7
8      int i,j,mayor=m[pf][pc];
9
10     for(i=pf;i<=uf;i++)
11         for (j=pc;j<=uc;j++)
12             if (m[i][j]>mayor)
13                 mayor =m[i][j];
14     return mayor;
15 }
16
17 float Maxde4(float a, float b, float c, float d){
18     if (a>b && a>c && a>d)
19         return a;
20     else
21         if (b>a && b>c && b>d)
22             return b;
23     else
24         if (c>b && c>a && c>d)
25             return c;
26     else
27         return d;
28 }
29 float MayorMatdyv(int m[][TAM], int n, int pf, int uf, int pc, int uc){
30
31     if (n==2)
32         return AlgoritmoMayorClasico(m, pf, uf, pc, uc);
33     else{
34         float m1=MayorMatdyv(m, n/2, 0, (n/2)-1, 0, (n/2)-1);
35         float m2=MayorMatdyv(m, n/2, n/2, n-1, 0, (n/2)-1);
36         float m3=MayorMatdyv(m, n/2, 0, (n/2)-1, n/2, n-1);
37         float m4=MayorMatdyv(m, n/2, n/2, n-1, n/2, n-1);
38         //cout << m1 <<" " << m2 <<" " << m3 <<" " << m3 << endl;
39         return (Maxde4(m1,m2,m3,m4));
40     }
41 }
42
43
44 int main(){
45
46     int m[][4]={ {8,2,3,4},{1,9,3,4},{1,2,6,4},{1,2,3,14}};
47
48
49     float res=MayorMatdyv(m,4,0,3,0,3);
50
51     cout << "Mayor DyV: " << res << endl;
52
53     return 0;
54
55 }

```