```
You an
            Mang2Chieu.cpp a X Mang1Chieu.cpp
SplitString.cpp
                                        CauTrucLap.cpp
                                                      CauTrucReNhanh.cpp
Lap TrinhBanBan
                                                    (Global Scope)

⊟void InPhanTuTrenCot(int a[SIZE][SIZE], int n, int m, int Cot)

    128
    129
                printf("\n-----\n", Cot);
    130
                for (int i = 0; i < n; i++)
    131
    132
                     printf("%d \t", a[i][Cot]);
    133
    134
    135
    136
    137
    138
           Evoid main()
    139
                 srand(unsigned int(time(NULL)));
    140
    141
    142
                 int a[SIZE][SIZE];
    143
                 int n = 0, m = 0;
    144
    145
                 NhapDongCot(n, m);
                                                        in các số trên
    146
                NhapMang(a, n, m);
    147
                 XuatMang(a, n, m);
                                                     đường chéo chính
    148
                 printf("\n\n");
    149
                 for (int i = 0; i < n; i++)
    150
    151
                     for (int j = 0; j < m; j++)
    152
    153
    154
                         if (i == i)
    155
                         printf("%d \t", a[i][j]);
    156
    157
    158
    159
    160
```

Microsoft Visual Studio Debug Console

Nhap so dong (n > 0): 4

```
------Mang 2 chieu------
18 4 4 17
8 18 13 7
```

4 4 5 11 9 15 18 19

19

18 18 5 19
C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 11036) exited with code 0.
Press any key to close this window

Press any key to close this window . . .

```
You are screen st
             Mang2Chieu.cpp* -u X Mang1Chieu.cpp
SplitString.cpp
                                          CauTrucLap.cpp
                                                        CauTrucReNhanh.cpp
Lap TrinhBanBan
                                                     (Global Scope)
           ⊟void InPhanTuTrenCot(int a[SIZE][SIZE], int n, int m, int Cot)
    128
    129
                 printf("\n-----\n", Cot);
    130
                 for (int i = 0; i < n; i++)
    131
    132
    133
                     printf("%d \t", a[i][Cot]);
    134
             }
    135
    136
    137
    138
           □void main()
    139
                 srand(unsigned int(time(NULL)));
    140
    141
                 int a[SIZE][SIZE];
    142
    143
                 int n = 0, m = 0;
    144
    145
                 NhapDongCot(n, m);
                 NhapMang(a, n, m);
    146
    147
                 XuatMang(a, n, m);
    148
                 printf("\n\n");
    149
    150
                 for (int i = 0; i < n; i++)
    151
                     for (int j = 0; j < m; j++)
    152
    153
                         if (i + j == n - 1)
    154
    155
                         printf("%d \t", a[i][j]);
    156
    157
    158
    159
    160
```

```
G Select Microsoft Visual Studio Debug Console
Nhap so dong (n > 0): 4
        ---Mang 2 chieu--
                           6
         15
                  15
                          8
         13
                 20
         11
                          12
         15
                 13
                           6
C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 14384) exited with code 0.
Press any key to close this window . . .
```

Wilmhall Samuel

| 4  | A           | В | С | D  | Е  | F  | G  | Н | I | J | K | L | M | N | O | P |
|----|-------------|---|---|----|----|----|----|---|---|---|---|---|---|---|---|---|
| 1  |             |   |   |    |    |    |    |   |   |   |   |   |   |   |   |   |
| 2  |             |   |   |    |    |    |    |   |   |   |   |   |   |   |   |   |
| 3  | int a[3][4] |   |   | 0  | 1  | 2  | 3  |   |   | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 4  | int $n = 3$ |   | 0 | 1  | 2  | 3  | 4  |   | 0 |   |   |   |   | * |   |   |
| 5  | int $m = 4$ |   | 1 | 5  | 6  | 3  | 8  |   | 1 |   |   |   | * | * | * |   |
| 6  |             |   | 2 | 9  | 10 | 11 | 12 |   | 2 |   |   | * | * | * | * | * |
| 7  |             |   | 3 | 13 | 14 | 15 | 16 |   | 3 |   | * | * | * | * | * | * |
| 8  |             |   |   |    |    |    |    |   | 4 | * | * | * | * | * | * | * |
| 9  |             |   |   | 0  | 1  | 2  | 3  |   |   |   |   |   |   |   |   |   |
| 10 |             |   | 0 | 00 | 01 | 02 | 03 |   |   |   |   |   |   |   |   |   |
| 11 |             |   | 1 | 10 | 11 | 12 | 13 |   |   |   |   |   |   |   |   |   |
| 12 |             |   | 2 | 20 | 21 | 22 | 23 |   |   |   |   |   |   |   |   |   |
| 13 |             |   | 3 | 30 | 31 | 32 | 33 |   |   |   |   |   |   |   |   |   |
| 14 |             |   |   |    |    |    |    |   |   |   |   |   |   |   |   |   |

| 1  | A           | В | C | D  | E  | F  | G  | Н | I | J | K | L | M | N | О | P |
|----|-------------|---|---|----|----|----|----|---|---|---|---|---|---|---|---|---|
| 1  |             |   |   |    |    |    |    |   |   |   |   |   |   |   |   |   |
| 2  |             |   |   |    |    |    |    |   |   |   |   |   |   |   |   |   |
| 3  | int a[3][4] |   |   | 0  | 1  | 2  | 3  |   |   | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 4  | int $n = 3$ |   | 0 | 1  | 2  | 3  | 4  |   | 0 |   |   |   |   | * |   |   |
| 5  | int $m = 4$ |   | 1 | 5  | 6  | 7  | 8  |   | 1 |   |   |   | * | * | * |   |
| 6  |             |   | 2 | 9  | 10 | 11 | 12 |   | 2 |   |   | * | * | * | * | * |
| 7  |             |   | 3 | 13 | 14 | 15 | 16 |   | 3 |   | * | * | * | * | * | * |
| 8  |             |   |   |    |    |    |    |   | 4 | * | * | * | * | * | * | * |
| 9  |             |   |   | 0  | 1  | 2  | 3  |   |   |   |   |   |   |   |   |   |
| 10 |             |   | 0 | 00 | 01 | 02 | 03 |   |   |   |   |   |   |   |   |   |
| 11 |             |   | 1 | 10 | 11 | 12 | 13 |   |   |   |   |   |   |   |   |   |
| 12 |             |   | 2 | 20 | 21 | 22 | 23 |   |   |   |   |   |   |   |   |   |
| 13 |             |   | 3 | 30 | 31 | 32 | 33 |   |   |   |   |   |   |   |   |   |
| 14 |             |   |   |    |    |    |    |   |   |   |   |   |   |   |   |   |
| 15 |             |   |   |    |    |    |    |   |   |   |   |   |   |   |   |   |
| 10 |             |   |   |    |    |    |    |   |   |   |   |   |   |   |   |   |

| 7775 |             |   |   |    |    |    |    |   |   |   |   |    | 511 |   |   | _ |
|------|-------------|---|---|----|----|----|----|---|---|---|---|----|-----|---|---|---|
| 1    | A           | В | C | D  | E  | F  | G  | Н | I | J | K | L  | M   | N | O | P |
| 1    |             |   |   |    |    |    |    |   |   |   |   |    |     |   |   |   |
| 2    |             |   |   |    |    |    |    |   |   |   |   |    |     |   |   |   |
| 3    | int a[3][4] |   |   | 0  | 1  | 2  | 3  |   |   | 0 | 1 | 2  | 3   | 4 | 5 | 6 |
| 4    | int $n = 3$ |   | 0 | 1  | 2  | 3  | 4  |   | 0 |   |   |    |     | * |   |   |
| 5    | int $m = 4$ |   | 1 | 5  | 6  | 7  | 8  |   | 1 |   |   |    | *   | * | * |   |
| 6    |             |   | 2 | 9  | 10 | 11 | 12 |   | 2 |   | - | *  | *   | * | * | * |
| 7    |             |   | 3 | 13 | 14 | 15 | 16 |   | 3 |   | * | *  | *   | * | * | * |
| 8    |             |   |   |    |    |    |    |   | 4 | * | * | *  | *   | * | * | * |
| 9    |             |   |   | 0  | 1  | 2  | 3  |   |   |   |   |    |     |   |   |   |
| 10   |             |   | 0 | 00 | 01 | 02 | 03 |   |   |   |   |    |     |   |   |   |
| 11   |             |   | 1 | 10 | 11 | 12 | 13 |   |   |   |   | 13 |     |   |   |   |
| 12   |             |   | 2 | 20 | 21 | 22 | 23 |   |   |   |   |    |     |   |   |   |
| 13   |             |   | 3 | 30 | 31 | 32 | 33 |   |   |   |   |    |     |   |   |   |
| 14   |             |   |   |    |    |    |    |   |   |   |   |    |     |   |   |   |

```
You are scree
SplitString.cpp
            Mang2Chieu.cpp* -a X Mang1Chieu.cpp
                                         CauTrucLap.cpp
                                                        CauTrucReNhanh.cop
Lap TrinhBanBan
                                                     (Global Scope)
           ∃void InPhanTuTrenCot(int a[SIZE][SIZE], int n, int m, int Cot)
    128
    129
                 printf("\n-----\n", Cot);
    130
    131
                 for (int i = 0; i < n; i++)
    132
                     printf("%d \t", a[i][Cot]);
    133
    134
            }
    135
    136
    137
           □void main()
    138
    139
                 srand(unsigned int(time(NULL)));
    140
    141
    142
                 int a[SIZE][SIZE];
                 int n = 0, m = 0;
    143
    144
    145
                 NhapDongCot(n, m):
                 NhapMang(a, n, m);
    146
                 XuatMang(a, n, m);
    147
    148
                 printf("\n\n");
    149
                 for (int i = 0; i < n; i++)
    150
    151
                     for (int j = i; j < m; j++)
    152
    153
    154
                         printf("%d \t", a[i][j]);
    155
    156
                     printf("\n");
    157
    158
    159
    160
```

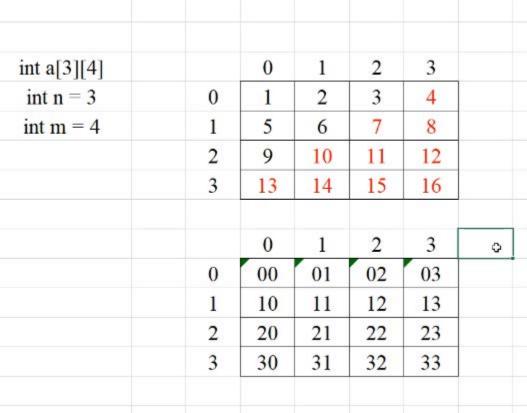
```
Microsoft Visual Studio Debug Console
Nhap so dong (n > 0): 4
           -Mang 2 chieu-
          15
                   10
                             13
                   5
                             8
          8
          20
                   15
                             12
                             8
                   12
          15
                   10
                             13
8
                   8
15
          12
```

C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 15056) exited with code 0. Press any key to close this window . . .

```
SplitString.cpp
              Mang2Chieu.cpp 4 X Mang1Chieu.cpp
                                             CauTrucLap.cpp
                                                            CauTrucReNhanh.cop
Lap TrinhBanBan
                                                          (Global Scope)
                  srand(unsigned int(time(NULL)));
    140
    141
    142
                  int a[SIZE][SIZE];
    143
                  int n = 0, m = 0;
    144
    145
                  NhapDongCot(n, m);
    146
                  NhapMang(a, n, m);
    147
                  XuatMang(a, n, m);
    148
    149
                  printf("\n\n");
    150
                  for (int i = 0; i < n; i++)
    151
    152
                       for (int j = 0; j < m; j++)
    153
                           if (j >= i)
    154
    155
                                printf("%d \t", a[i][j]);
                           else
    156
                                printf(" \t");
    157
    158
    159
                       printf("\n");
    160
    161
    162
    163
```

```
IDT 3151/E1151/E13
 Microsoft Visual Studio Debug Console
Nhap so dong (n > 0): 4
        ---Mang 2 chieu-----
13
                 17
        14
                          11
                 13
        20
                 9
                         11
                          14
                 6
13
                 17
        14
                 13
                         11
                 9
                         11
                          14
C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 16508) exited with code 0.
Press any key to close this window . . .
```

```
Mang2Chieu.cpp a X Mang1Chieu.cpp
SplitString.cpp
                                             CauTrucLap.cpp
                                                            CauTrucReNhanh.cpp
Lap TrinhBanBan
                                                          (Global Scope)
                  srand(unsigned int(time(NULL)));
    140
    141
    142
                  int a[SIZE][SIZE];
    143
                  int n = 0, m = 0;
    144
    145
                  NhapDongCot(n, m);
    146
                  NhapMang(a, n, m);
                  XuatMang(a, n, m);
    147
    148
    149
                  printf("\n\n");
    150
                  for (int i = 0; i < n; i++)
    151
    152
                       for (int j = 0; j < m; j++)
    153
    154
                           if (j >= i)
                                printf("%d \t", a[i][j]);
    155
    156
                           else
                                printf(" \t");
    157
    158
                       printf("\n");
    159
    160
    161
    162
    163
```



```
SplitString.cpp
              Mang2Chieu.cpp -a X Mang1Chieu.cpp
                                             CauTrucLap.cpp
                                                            CauTrucReNhanh.cop
Lap TrinhBanBan
                                                          (Global Scope)
                  srand(unsigned int(time(NULL)));
    140
    141
    142
                  int a[SIZE][SIZE];
    143
                  int n = 0, m = 0;
    144
    145
                  NhapDongCot(n, m);
    146
                  NhapMang(a, n, m);
    147
                  XuatMang(a, n, m);
    148
    149
                  printf("\n\n");
    150
                  for (int i = 0; i < n; i++)
    151
    152
                       for (int j = 0; j < m; j++)
    153
                           if (j + i >= n - 1)
    154
                                printf("%d \t", a[i][j]);
    155
    156
                           else
                                printf(" \t");
    157
    158
    159
                       printf("\n");
    160
    161
    162
    203
```

```
Microsoft Visual Studio Debug Console
Nhap so dong (n > 0): 4
    -----Mang 2 chieu-----
17
11
20
16
        3
                          10
        10
        17
        4
                 1
                          6
                          10
                 9
                          3
        17
                          9
16
                          6
C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 20688) exited with code 0.
Press any key to close this window . . .
```

|   | 0  | 1  | 2  | 3  |  |
|---|----|----|----|----|--|
| 0 | 1  | 2  | 3  | 4  |  |
| 1 | 5  | 6  | 7  | 8  |  |
| 2 | 9  | 10 | 11 | 12 |  |
| 3 | 13 | 14 | 15 | 16 |  |
|   |    |    |    | ٥  |  |
|   | 0  | 1  | 2  | 3  |  |
| 0 | 00 | 01 | 02 | 03 |  |
| 1 | 10 | 11 | 12 | 13 |  |
| 2 | 20 | 21 | 22 | 23 |  |
| 3 | 30 | 31 | 32 | 33 |  |
|   |    |    |    |    |  |

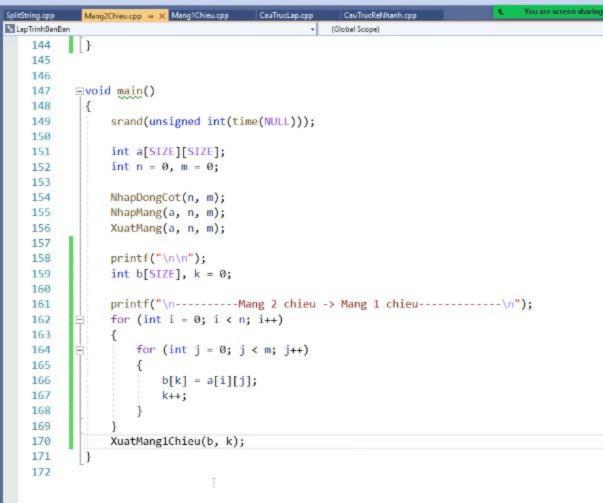
```
Mang2Chieu.cpp a × Mang1Chieu.cpp
                                                            CauTrucReNhanh.cpp
SplitString.cpp
                                            CauTrucLap.cpp
LapTrinhBanBan
                                                         (Global Scope)
                  srand(unsigned int(time(NULL)));
    140
    141
                  int a[SIZE][SIZE];
    142
    143
                  int n = 0, m = 0;
    144
    145
                  NhapDongCot(n, m);
    146
                  NhapMang(a, n, m);
    147
                  XuatMang(a, n, m);
    148
    149
                  printf("\n\n");
    150
                  for (int i = 0; i < n; i++)
    151
    152
                       for (int j = 0; j < m; j++)
    153
                           if (i == 0 || i == n - 1 || j == 0 || j == n - 1)
    154
    155
                                printf("%d \t", a[i][j]);
    156
    157
                       printf("\n");
    158
    159
    160
    161
```

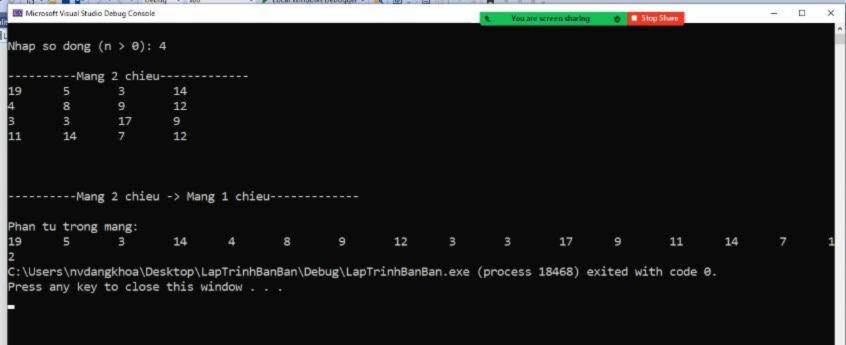
```
Microsoft Visual Studio Debug Console
Nhap so dong (n > 0): 4
          -Mang 2 chieu-
11
         15
                  16
                           6
5
         6
                  8
                           16
16
                  17
                           15
         4
                  16
                           12
         15
                  16
                           6
5
         16
16
         15
         4
                  16
                           12
C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 17060) exited with code 0.
```

Press any key to close this window . . .

| 16 Xuất theo hình cho trước:                                 | 7.0 8.5 9.5 10             |
|--|----------------------------|
| 16.1 In các giá trị các phần tử của ma trận theo thứ tự của  | 12 5.5 6.2 15              |
| đường chéo song song với đường chéo phụ của ma               | 8.0 3.3 8.0 12             |
| trận.  | 9.5 1.0 9.0 13             |
| Ví dụ: Ma trận nhập vào:                                     | 7. 7. 1.                   |
| Kết quả in ra: 7.0; 8.5;12; 9.5; 5.5; 8.0; 10; 6.2; 3.3; 9.5 | ; 15; 8.0; 1.0; 12; 9; 13; |

```
You are so
            Mang2Chieu.cpp a × Mang1Chieu.cpp
SplitString.cpp
                                         CauTrucLap.cpp
                                                      CauTrucReNhanh.cpp
Lap TrinhBanBan
                                                    (Global Scope)
                         Max = a[Dong][i];
    123
    124
    125
                return Max;
    126
            }
    127
    128
           ∃void InPhanTuTrenCot(int a[SIZE][SIZE], int n, int m, int Cot)
    129
                printf("\n-----\n", Cot);
    130
                for (int i = 0; i < n; i++)
    131
    132
                     printf("%d \t", a[i][Cot]);
    133
    134
    135
    136
           =void XuatMang1Chieu(int a[SIZE], int n)
    137
    138
            {
                printf("\nPhan tu trong mang:\n");
    139
    140
                for (int i = 0; i < n; i++)
    141
    142
                     // printf("\na[%d] = %d", i, a[i]);
                     printf("%d \t", a[i]);
    143
    144
    145
    146
    147
           ∃void main()
    148
    149
                srand(unsigned int(time(NULL)));
    150
    151
                int a[SIZE][SIZE];
    152
                int n = 0, m = 0;
    153
    154
                NhapDongCot(n, m);
    155
                NhapMang(a, n, m);
    156
    157
                XuatMang(a, n, m);
143% - 00
             12 + >
```





```
Stop Share
                                                                                      You are screen sharing
SplitString.cpp
            Mang2Chieu.cpp* -a × Mang1Chieu.cpp
                                          CauTrucLap.cpp
                                                         CauTrucReNhanh.cpp
Lap TrinhBanBan
                                                                                                       - @ main()
                                                      (Global Scope)
            1
    135
    136
           137
    138
                 printf("\nPhan tu trong mang:\n");
    139
                 for (int i = 0; i < n; i++)
    140
    141
                     printf("%d \t", a[i]);
    142
    143
    144
    145
    146
             void Swap(int&-a, int& b)
    147
    148
                 int temp = a;
                 a - b;
    149
                 b = temp;
    150
    151
    152
             void InterchangeSort(int a[SIZE], int n)
    153
    154
                 for (int i = 0; i < n - 1; i++)
    155
    156
                     for (int j = i + 1; j < n; j++)
    157
    158
    159
                          if (a[i] > a[j])
    160
                              Swap(a[i], a[j]);
    161
    162
    163
    164
    165
    166
    107
           □void main()
    168
    169
143% + 00
```

A 2

```
You are screen s
              Mang2Chieu.cpp* -a X Mang1Chieu.cpp
SplitString.cpp
                                             CauTrucLap.cpp
                                                            CauTrucReNhanh.cop
Lap TrinhBanBan
                                                         (Global Scope)
    171
                  int a[SIZE][SIZE];
    172
                  int n = 0, m = 0;
    173
    174
                  NhapDongCot(n, m);
    175
    176
                  NhapMang(a, n, m);
                  XuatMang(a, n, m);
    177
    178
    179
                  printf("\n\n");
    180
                  int b[SIZE], k = 0;
    181
    182
                  printf("\n------Mang 2 chieu -> Mang 1 chieu-----
                  for (int i = 0; i < n; i++)
    183
    184
    185
                       for (int j = 0; j < m; j++)
    186
    187
                           b[k] = a[i][j];
    188
                           k++;
    189
    190
                  XuatMang1Chieu(b, k);
    191
                  InterchangeSort(b, k);
    192
    193
    194
```

```
You are screen sharin
SplitString.cpp
             Mang2Chieu.cpp 4 × Mang1Chieu.cpp
                                                           CauTrucReNhanh.cpp
                                            CauTrucLap.cpp
Lap TrinhBanBan
                                                         (Global Scope)
    171
    172
                  int a[SIZE][SIZE];
                  int n = 0, m = 0;
    173
    174
                  NhapDongCot(n, m);
    175
                  NhapMang(a, n, m);
    176
    177
                  XuatMang(a, n, m);
    178
                  printf("\n\n");
    179
                  int b[SIZE], k = 0;
    180
    181
                  printf("\n------Mang 2 chieu -> Mang 1 chieu------
    182
                  for (int i = 0; i < n; i++)
    183
    184
                       for (int j = 0; j < m; j++)
    185
    186
                           b[k] = a[i][j];
    187
    188
                           k++;
    189
    190
    191
                  XuatMang1Chieu(b, k);
    192
                  InterchangeSort(b, k);
    193
                  XuatMang1Chieu(b, k);
    194
```

Outrust

Phan tu trong mang:

```
You are screen sh
SplitString.cpp
           Mang2Chieu.cpp -u X Mang1Chieu.cpp
                                      CauTrucLap.cpp
                                                   CauTrucReNhanh.cpp
LapTrinhBanBan
                                                 (Global Scope)
               XuatMang(a, n, m);
   177
   178
   179
               printf("\n\n");
   180
               int b[SIZE], k = 0;
   181
               printf("\n-----\n");
   182
               for (int i = 0; i < n; i++)
   183
    184
                   for (int j = 0; j < m; j++)
   185
    186
    187
                       b[k] = a[i][j];
    188
                       k++;
   189
   190
    191
   192
               XuatMang1Chieu(b, k);
   193
               InterchangeSort(b, k);
   194
               XuatMang1Chieu(b, k);
    195
   196
               printf("\n-----\n");
    197
               for (int i = 0; i < n; i++)
               {
    198
                   for (int j = 0; j < m; j++)
    199
    200
    201
                       a[i][j] = b[k];
                       k++;
    202
    203
    204
    205
    206
```

```
SplitString.cpp
            Mang2Chieu.cpp a X Mang1Chieu.cpp
                                      CauTrucLap.cpp
                                                   CauTrucReNhanh.cpp
                                                                               You are screen:
Lap TrinhBanBan
                                                 (Global Scope)
    174
                NhapDongCot(n, m);
    175
                NhapMang(a, n, m);
    176
                XuatMang(a, n, m);
    177
    178
               -printf("\n\n");
    179
                int b[SIZE], k = 0;
    180
    181
                printf("\n-----\n");
    182
    183
                for (int i = 0; i < n; i++)
    184
                    for (int j = 0; j < m; j++)
    185
    186
    187
                       b[k] = a[i][j];
    188
                        k++:
    189
    190
    191
                XuatMang1Chieu(b, k);
    192
                InterchangeSort(b, k);
    193
                XuatManglChieu(b, k);
    194
    195
                printf("\n-----\n");
    196
    197
                k = 0:
                for (int i = 0; i < n; i++)
    198
    199
                    for (int j = 0; j < m; j++)
    200
    201
                        a[i][j] = b[k];
    202
    203
                        k++;
    204
    205
    206
    707
```

```
You are sen
SplitString.cpp
            Mang2Chieu.cpp* -u X Mang1Chieu.cpp
                                          CauTructap.cpp
                                                        CauTrucReNhanh.cop
Lap TrinhBanBan
                                                     (Global Scope)
    183
                 for (int i = 0; i < n; i++)
    184
    185
                     for (int j = 0; j < m; j++)
    186
                         b[k] = a[i][j];
    187
    188
                         k++;
    189
    190
    191
    192
                 XuatMang1Chieu(b, k);
                 InterchangeSort(b, k);
    193
                 XuatMang1Chieu(b, k);
    194
    195
    196
                 printf("\n-----\n");
                 k = 0;
    197
                 for (int i = 0; i < n; i++)
    198
    199
                     for (int j = 0; j < m; j++)
    200
    201
                         a[i][j] = b[k];
    202
    203
                         k++;
    204
    205
    206
    207
                 XuatMang(a, n, m);
    208
    209
```

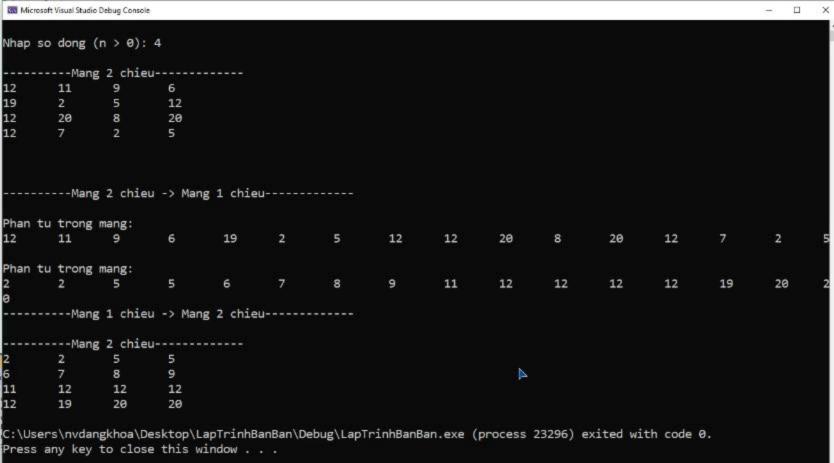
Microsoft Visual Studio Debug Console Nhap so dong (n > 0): 3 ---Mang 2 chieu-----------Mang 2 chieu -> Mang 1 chieu------Phan tu trong mang: Phan tu trong mang: ------Mang 1 chieu -> Mang 2 chieu-----------Mang 2 chieu-----C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 20560) exited with code 0. Press any key to close this window . . .

```
You are screen sharing
                                                                                                         Sto
SplitString.cpp
             Mang2Chieu.cpp -a X Mang1Chieu.cpp
                                          CauTruckap.cpp
                                                        CauTrucReNhanh.cpp
                                                                                                      - @ DoMa
Lap TrinhBanBan
                                                      (Global Scope)
    162
                         }
    163
    164
    165
    166
    167
            Evoid DoMang1ChieuQua1Chieu(int a[SIZE][SIZE], int n, int m, int b[SIZE], int &k)
    168
    169
                 printf("\n-----\n");
    170
                 for (int i = 0; i < n; i++)
    171
    172
                      for (int j = 0; j < m; j++)
    173
    174
    175
                         b[k] = a[i][j];
    176
                         k++;
    177
    178
    179
    LOU
           □void main()
    181
    182
                 srand(unsigned int(time(NULL)));
    183
    184
    185
                 int a[SIZE][SIZE];
                 int n = 0, m = 0;
    186
    187
                 NhapDongCot(n, m);
    188
                 NhapMang(a, n, m);
    189
    190
                 XuatMang(a, n, m);
    191
                 printf("\n\n");
    192
                 int b[SIZE], k = 0;
    193
    194
    195
    196
```

```
You are screen shar
SplitString.cpp
             Mang2Chieu.cpp -u × Mang1Chieu.cpp
                                                          CauTrucReNhanh.cpp
                                           CauTrucLap.cpp
Lap TrinhBanBan
                                                        (Global Scope)
    177
                      }
    178
    179
    180
    181
            ∃void main()
    182
                  srand(unsigned int(time(NULL)));
    183
    184
    185
                  int a[SIZE][SIZE];
    186
                  int n = 0, m = 0;
    187
    188
                  NhapDongCot(n, m);
                  NhapMang(a, n, m);
    189
    190
                  XuatMang(a, n, m);
    191
                  printf("\n\n");
    192
                  int b[SIZE], k = 0;
    193
    194
                  DoMang1ChieuQua1Chieu(a, n, m, b, k);
    195
                  XuatMang1Chieu(b, k);
    196
                  InterchangeSort(b, k);
    197
                  XuatMang1Chieu(b, k);
    198
    199
                  printf("\n------Mang 1 chieu -> Mang 2 chieu------
    200
    201
                  k = 0:
                  for (int i = 0; i < n; i++)
    202
    203
    204
                      for (int j = 0; j < m; j++)
    205
                           a[i][j] = b[k];
    206
    207
                           k++;
    208
    209
    210
                  XuatMang(a, n, m);
    211
```

```
You are screen sharing
            Mang2Chieu.cpp* -a X Mang1Chieu.cpp
SplitString.cpp
                                          CauTrucLap.cpp
                                                        CauTrucReNhanh.cpp
Lap TrinhBanBan
                                                     (Global Scope)
    177
    178
            }
    179
    180
           _void DoMang1ChieuQua2Chieu(int a[SIZE][SIZE], int n, int m, int b[SIZE], int k)
    181
    182
                 printf("\n-----\n");
    183
    184
                 k = 0:
                 for (int i = 0; i < n; i++)
    185
    186
                     for (int j = 0; j < m; j++)
    187
    188
                         a[i][j] = b[k];
    189
    190
                         k++;
    191
    192
    193
    194
           ∃void main()
    195
             {
    196
                 srand(unsigned int(time(NULL)));
    197
    198
                 int a[SIZE][SIZE];
    199
                 int n = 0, m = 0;
    200
    201
                 NhapDongCot(n, m);
    202
                 NhapMang(a, n, m);
    203
                 XuatMang(a, n, m);
    204
    205
                 printf("\n\n");
    206
                 int b[SIZE], k = 0;
    207
    208
                 DoMang2ChieuQua1Chieu(a, n, m, b, k);
    209
                 XuatMang1Chieu(b, k);
    210
                 InterchangeSort(b, k);
    211
143% +
        0 0
                  + +
```

```
Mang2Chieu.cpp -a X Mang1Chieu.cpp
SplitString.cpp
                                            CauTrucLap.cpp
                                                           CauTrucReNhanh.cpp
Lap TrinhBanBan
                                                         (Global Scope)
    186
                       for (int i = 0; i < m; i++)
    187
    188
                           a[i][j] = b[k];
    189
    190
                           k++;
    191
    192
    193
    194
    195
            ∃void main()
    196
    197
                  srand(unsigned int(time(NULL)));
    198
    199
                  int a[SIZE][SIZE];
    200
                  int n = 0, m = 0;
    201
    202
                  NhapDongCot(n, m);
    203
                  NhapMang(a, n, m);
                  XuatMang(a, n, m);
    204
    205
                  printf("\n\n");
    206
                  int b[SIZE], k = 0;
    207
    208
                  DoMang2ChieuQua1Chieu(a, n, m, b, k);
    209
                  XuatMang1Chieu(b, k);
    210
                  InterchangeSort(b, k);
    211
    212
                  XuatMang1Chieu(b, k);
    213
                  DoMang1ChieuQua2Chieu(a, n, m, b, k);
    214
                  XuatMang(a, n, m);
    215
    216
    217
```



```
SplitString.cpp
              Mang2Chieu.cpp -u X Mang1Chieu.cpp
                                             CauTrucLap.cpp
                                                            CauTrucReNhanh.cpp
Lap TrinhBanBan
                                                          (Global Scope)
                  }
    192
    193
    194
            ⊟void main()
    195
    196
              {
                  srand(unsigned int(time(NULL)));
    197
    198
    199
                  int a[SIZE][SIZE];
    200
                  int n = 0, m = 0;
    201
    202
                  NhapDongCot(n, m);
    203
                  NhapMang(a, n, m);
                  XuatMang(a, n, m);
    204
    205
                  printf("\n\n");
    206
                  int b[SIZE], k = 0;
    207
    208
                  DoMang2ChieuQua1Chieu(a, n, m, b, k);
    209
    210
                  XuatMang1Chieu(b, k);
    211
                  InterchangeSort(b, k);
                  XuatMang1Chieu(b, k);
    212
    213
                  DoMang1ChieuQua2Chieu(a, n, m, b, k);
    214
                  XuatMang(a, n, m);
    215
    216
    217
```

```
—int TimMaxDong(int a[SIZE][SIZE], int n, int m, int Dong)

117
118
119
            int Max = a[Dong][0];
            for (int j = 1; j < m; j++)
120
121
122
                 if (Max < a[Dong][j])
                     Max = a[Dong][j];
123
124
125
            return Max;
126
```

```
128

—int TimMinCot(int a[SIZE][SIZE], int n, int m, int Cot)

129
            int Min = a[Cot][0];
130
131
            for (int i = 1; i < n; i++)
132
133
                 if (a[i][Cot] < Min)
134
                     Min = a[i][Cot];
135
136
             return Min:
137
```

72.- (\*) Đếm số lượng giá trị "Hoàng Hậu" trên ma trận. Một phần tử được gọi là Hoàng Hậu khi nó lớn nhất trên dòng, trên cột và hai đường chéo đi qua nó. 73.- (\*) Đếm số lượng giá trị "Yên Ngựa" trên ma trận. Một phần tử được gọi là Yên Ngựa khi nó lớn nhất trên dòng và nhỏ nhất trên cột.

```
SolitString.cop
             Mang2Chieu.cpp -p X Mang1Chieu.cpp
                                          CauTrucLap.cpp
                                                        CauTrucReNhanh.cpp
LapTrinhBanBan
                                                      (Global Scope)
    210
                 int a[SIZE][SIZE];
    211
                 int n = 0, m = 0;
    212
    213
                 NhapDongCot(n, m);
    214
                 NhapMang(a, n, m);
    215
                 XuatMang(a, n, m);
    216
    217
                 printf("\n\n");
    218
                 // Phần tử yên ngưa
    219
    220
                 printf("\n----\n");
    221
                 for (int i = 0; i < n; i++)
    222
    223
                     for (int j = 0; j < m; j++)
    224
    225
    226
                          int Dong = i, Cot = j;
                          int MaxDong = TimMaxDong(a, n, m, Dong);
    227
    228
                          int MinCot = TimMinCot(a, n, m, Cot);
    229
                          if (a[i][j] == MaxDong && a[i][j] == MinCot)
    230
                              printf("\nPhan tu yen ngua: a[%d][%d] = %d", i, j, a[i][j]);
    231
    232
                                                   I
                     printf("\n");
    233
    234
    235
    236
    237
```

```
Mang2Chieu.cpp" +> X Mang1Chieu.cpp
                                            CauTrucLap.cpp
SplitString.cpp
                                                           CauTrucReNhanh.cpp
LapTrinhBanBan
                                                        (Global Scope)
    205
           ⊡int TimMaxDuongCheoDauSac(int a[SIZE][SIZE], int n, int m, int Tong)
    206
    207
    208
                 int Max = -1;
    209
                 for (int i = 0; i < n; i++)
    210
    211
                      for (int j = 0; j < m; j++)
    212
                          if (i + j == Tong)
    213
    214
    215
                               if (a[i][j] > Max)
    216
                                   Max = a[i][j];
    217
    218
    219
    220
                 return Max;
    221
    222
    223
           ⊟int TimMaxDuongCheoDauHuyen(int a[SIZE][SIZE], int n, int m, int Hieu)
    224
    225
                 int Max = -1:
    226
                 for (int i = 0; i < n; i++)
    227
                      for (int j = 0; j < m; j++)
    228
    229
                          if (i - j == Hieu)
    230
    231
    232
                               if (a[i][j] > Max)
    233
                                   Max = a[i][j];
    234
    235
    236
    237
    238
    239
           Dvoid main()
143 % - 0 0
            A 2
                  + +
```

```
Mang2Chieu.cpp* + X Mang1Chieu.cpp
SplitString.cpp
                                             CauTrucLap.cpp
                                                            CauTrucReNhanh.cpp
LapTrinhBanBan
                                                         (Global Scope)
    214
    215
                               if (a[i][j] > Max)
    216
                                    Max = a[i][j];
    217
    218
    219
    220
                  return Max;
    221
    222
    223

⊡int TimMaxDuongCheoDauHuyen(int a[SIZE][SIZE], int n, int m, int Hieu)

    224
    225
                  int Max = -1;
                  for (int i = 0; i < n; i++)
    226
    227
    228
                      for (int j = 0; j < m; j++)
    229
    230
                           if (i - j == Hieu)
    231
    232
                               if (a[i][j] > Max)
    233
                                    Max = a[i][j];
    234
    235
    236
    237
                  return Max;
    238
    239
            Evoid main()
    240
    241
                  srand(unsigned int(time(NULL)));
    242
    243
    244
                  int a[SIZE][SIZE];
                  int n = 0, m = 0;
    245
    246
                  NhapDongCot(n, m);
    247
                  NhapMang(a, n, m);
    248
```

```
Mang2Chieu.cpp -p -X Mang1Chieu.cpp
                                       CauTrucLap.cpp
litString.cpp
                                                    CauTrucReNhanh.cpp
LapTrinhBanBan
                                                   (Global Scope)
          }
  115
  116
         □int TimMaxDong(int a[SIZE][SIZE], int n, int m, int Dong)
  117
           {
  118
  119
               int Max = a[Dong][0];
  120
               for (int j = 1; j < m; j++)
  121
  122
                   if (Max < a[Dong][j])
  123
                       Max = a[Dong][j];
  124
  125
               return Max;
  126
  127
         int TimMinCot(int a[SIZE][SIZE], int n, int m, int Cot)
  128
  129
               int Min = a[Cot][0];
  130
  131
               for (int i = 1; i < n; i++)
  132
                   if (a[i][Cot] < Min)
  133
  134
                       Min = a[i][Cot];
  135
  136
               return Min;
  137
  138
  139

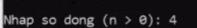
⊡void InPhanTuTrenCot(int a[SIZE][SIZE], int n, int m, int Cot)

  140
               printf("\n-----\n", Cot);
  141
               for (int i = 0; i < n; i++)
  142
  143
                   printf("%d \t", a[i][Cot]);
  144
  145
  146
  147
         void XuatMang1Chieu(int a[SIZE], int n)
  148
  149
```

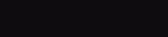
```
Mang2Chieu.cpp -p X Mang1Chieu.cpp
                                      CauTrucLap.cpp
                                                    CauTrucReNhanh.cpp
tring.cpp
pTrinhBanBan
                                                  (Global Scope)
 118
 119
             int Max = a[Dong][0];
120
              for (int j = 1; j < m; j++)
 121
 122
                  if (Max < a[Dong][j])
 123
                      Max = a[Dong][j];
 124
 125
             return Max;
 126
 127
128
        ⊡int TimMaxCot(int a[SIZE][SIZE], int n, int m, int Cot)
 129
 130
              int Max = a[Cot][0];
              for (int i = 1; i < n; i++)
 131
 132
 133
                  if (a[i][Cot] > Max)
 134
                      Max = a[i][Cot];
 135
 136
              return Max;
 137
 100
        ⊡int TimMinCot(int a[SIZE][SIZE], int n, int m, int Cot)
 139
 140
 141
              int Min = a[Cot][0];
              for (int i = 1; i < n; i++)
 142
 143
 144
                  if (a[i][Cot] < Min)
                      Min = a[i][Cot];
 145
 146
 147
              return Min;
 148
 149
 150
        _void InPhanTuTrenCot(int a[SIZE][SIZE], int n, int m, int Cot)
 151
             printf("\n-----\n", Cot);
 152
```

```
litString.cpp
           Mang2Chieu.cpp - x Mang1Chieu.cpp
                                        CauTrucLap.cpp
                                                      Cau TrucReNhanh.cpp
LapTrinhBanBan
                                                    (Global Scope)
                                                                                                     - @ main()
                int n = 0, m = 0;
  256
  257
               NhapDongCot(n, m);
  258
               NhapMang(a, n, m);
  259
               XuatMang(a, n, m);
  260
  261
               printf("\n\n");
  262
  263
               // Phần tử hoàng hậu
  264
  265
                printf("\n----\n");
  266
  267
               for (int i = 0; i < n; i++)
  268
                   for (int j = 0; j < m; j++)
  269
  270
                        int Dong = i, Cot = j;
  271
  272
                        int MaxDong = TimMaxDong(a, n, m, Dong);
  273
                        int MaxCot = TimMaxCot(a, n, m, Cot);
                        int MaxDauHuyen = TimMaxDuongCheoDauHuyen(a, n, m, Dong - Cot);
  274
                        int MaxDauSac = TimMaxDuongCheoDauSac(a, n, m, Dong + Cot);
  275
  276
                        if (a[i][j] == MaxDong && a[i][j] == MaxCot && MaxDauHuyen == a[i][j] && MaxDauSac == a[i][j])
  277
                            printf("\nPhan tu hoang hau: a[%d][%d] = %d", i, j, a[i][j]);
  278
  279
  280
                    printf("\n");
  281
  282
  283
  284
```

```
Microsoft Visual Studio Debug Console
           --Mang 2 chieu--
          8
          12
```



Press any key to close this window . . .



C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 14916) exited with code 0.





```
Select Microsoft Visual Studio Debug Console
Nhap so dong (n > 0): 4
        ---Mang 2 chieu-----
13
        8
                 19
                          11
8
12
                 10
                          15
        13
                 18
                          13
                 5
Phan tu hoang hau: a[2][2] = 18
Phan tu hoang hau: a[3][0] = 18
```

C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 23412) exited with code 0.

int alsizelisizer:

Press any key to close this window . . .

```
Mang2Chieu.cpp -u X Mang1Chieu.cpp
String.cpp
                                         CauTrucLap.cpp
                                                       CauTrucReNhanh.cpp
                                                                                                        - ® mai
apTrinhBanBan
                                                     (Global Scope)
 250
 251
         □void main()
 252
 253
               srand(unsigned int(time(NULL)));
 254
 255
               int a[SIZE][SIZE];
 256
               int n = 0, m = 0;
 257
 258
               NhapDongCot(n, m);
 259
               NhapMang(a, n, m);
 260
               XuatMang(a, n, m);
 261
 262
               printf("\n\n");
 263
 264
               // Phần tử cực đại
 265
               printf("\n-----
 266
 267
               for (int i = 0; i < n; i++)
 268
 269
                   for (int j = 0; j < m; j++)
 270
 271
                        int Dong = i, Cot = j;
 272
                        int DongBatDau = Dong - 1;
 273
 274
                        int DongKetThuc = Dong + 1;
 275
                        int CotBatDau = Cot - 1;
 276
                        int CotKetThuc = Cot + 1;
 277
 278
                            printf("\nPhan tu hoang hau: a[%d][%d] = %d", i, j, a[i][j]);
 279
 280
 281
                   printf("\n");
 282
 283
 284
```

```
Mang2Chieu.cpp* → X Mang1Chieu.cpp
ring.cpp
                                       CauTrucLap.cpp
                                                     CauTrucReNhanh.cpp
TrinhBanBan
                                                  (Global Scope)
             printf("\n\n");
262
263
             // Phần tử cực đại
264
265
             printf("\n----\n");
266
             for (int i = 0; i < n; i++)
267
268
                  for (int j = 0; j < m; j++)
269
270
271
                      int Dong = i, Cot = j;
272
273
                      int DongBatDau = Dong - 1;
274
                      int DongKetThuc = Dong + 1;
275
                      int CotBatDau = Cot - 1;
276
                      int CotKetThuc = Cot + 1;
277
                      if (DongBatDau < 0) DongBatDau = 0;
278
279
                      if (DongKetThuc > n - 1) DongKetThuc = n - 1;
                      if (CotBatDau < 0) CotBatDau = 0;
280
                      if (CotKetThuc > n - 1) CotKetThuc = n - 1;
281
282
                      int Max = a[Dong][Cot];
283
284
285
                      for (int u = DongBatDau; u <= DongKetThuc; u++)
286
287
288
289
                          printf("\nPhan tu hoang hau: a[%d][%d] = %d", i, j, a[i][j]);
290
291
292
                  printf("\n");
293
294
295
206
```

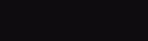
```
String.cpp
          Mang2Chieu.cpp -u X Mang1Chieu.cpp
                                        CauTrucLap.cpp
                                                      CauTrucReNhanh.cpp
apTrinhBanBan
                                                                                                      - @ main()
                                                    (Global Scope)
 265
              printf("\n-----
 266
              for (int i = 0; i < n; i++)
 267
 268
                   for (int j = 0; j < m; j++)
 269
 270
 271
                       int Dong = i, Cot = j;
 272
 273
                       int DongBatDau = Dong - 1;
 274
                       int DongKetThuc = Dong + 1;
                       int CotBatDau = Cot - 1;
 275
                       int CotKetThuc = Cot + 1;
 276
 277
 278
                       if (DongBatDau < 0) DongBatDau = 0;
                       if (DongKetThuc > n - 1) DongKetThuc = n - 1;
 279
                       if (CotBatDau < 0) CotBatDau = 0;
 280
                       if (CotKetThuc > n - 1) CotKetThuc = n - 1;
 281
 282
 283
                       int Max = a[Dong][Cot];
 284
                       for (int u = DongBatDau; u <= DongKetThuc; u++)
 285
 286
                           for (int v = CotBatDau; v <= CotKetThuc; v++)
 287
 288
                                if (a[u][v] > Max)
 289
                                    Max = a[u][v];
 290
 291
 292
 293
 294
                       if (Max == a[i][j])
                           printf("\nPhan tu cuc dai: a[%d][%d] = %d", i, j, a[i][j]);
 295
 296
                   printf("\n");
 297
 298
 299
```

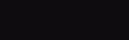
```
Mang2Chieu.cpp + X Mang1Chieu.cpp
                                                      CauTrucReNhanh.cpp
String.cpp
                                        CauTrucLap.cpp
apTrinhBanBan
                                                    (Global Scope)
 268
                   for (int j = 0; j < m; j++)
 269
 270
                       int Dong = i, Cot = j;
 271
 272
                       int DongBatDau = Dong - 1;
 273
                       int DongKetThuc = Dong + 1;
 274
                       int CotBatDau = Cot - 1;
 275
                       int CotKetThuc = Cot + 1;
 276
 277
                       if (DongBatDau < 0) DongBatDau = 0;
 278
 279
                       if (DongKetThuc > n - 1) DongKetThuc = n - 1;
                       if (CotBatDau < 0) CotBatDau = 0;
 280
                       if (CotKetThuc > n - 1) CotKetThuc = n - 1;
 281
 282
                       int Max = a[Dong][Cot];
 283
 284
 285
                       for (int u = DongBatDau; u <= DongKetThuc; u++)
 286
                           for (int v = CotBatDau; v <= CotKetThuc; v++)
 287
 288
                                if (a[u][v] > Max)
 289
                                    Max = a[u][v];
 290
 291
 292
 293
 294
                       if (Max == a[i][j])
 295
                           printf("\nPhan tu cuc dai: a[%d][%d] = %d", i, j, a[i][j]);
 296
 297
                   printf("\n");
 298
 299
 300
 301
```

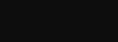
```
Microsoft Visual Studio Debug Console
Nhap so dong (n > 0): 4
```

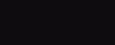
Press any key to close this window . . .

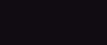
12



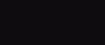


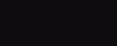


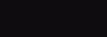




C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 23504) exited with code 0.













```
Mang2Chieu.cpp -p X Mang1Chieu.cpp
litString.cpp
                                           CauTrucLap.cpp
                                                          CauTrucReNhanh.cpp
LapTrinhBanBan
                                                       (Global Scope)
   256
                 int n = 0, m = 0;
   257
   258
                 NhapDongCot(n, m);
                 NhapMang(a, n, m);
   259
   260
                 XuatMang(a, n, m);
   261
                 printf("\n\n");
   262
   263
                 // Phần tử phân biệt
   264
                                                 Ė
   265
   266
                 int b[SIZE], k = 0;
   267
   268
                 printf("\n----\n");
   269
                for (int i = 0; i < n; i++)
   270
                     for (int j = 0; j < m; j++)
   271
   272
   273
                         b[k] = a[i][j];
   274
                          k++;
   275
                     printf("\n");
   276
   277
   278
   279
   280
```

```
Mang2Chieu.cpp -p × Mang1Chieu.cpp
                                         CauTrucLap.cpp
                                                        CauTrucReNhanh.cpp
apTrinhBanBan
                                                      (Global Scope)
                        if (i - j == Hieu)
 241
 242
 243
                             if (a[i][j] > Max)
                                 Max = a[i][j];
 244
 245
 246
 247
 248
               return Max;
 249
 250
         □int KiemTraTonTaiTrongMang(int b[SIZE], int k, int x)
 251
 252
          {
               for (int i = 0; i < k; i++)
 253
 254
 255
                    if (b[i] == x)
 256
                        return 1;
 257
 258
               return 0;
 259
 260
 261
         Dvoid main()
           {
 262
               srand(unsigned int(time(NULL)));
 263
 264
 265
               int a[SIZE][SIZE];
               int n = 0, m = 0;
 266
 267
               NhapDongCot(n, m);
 268
               NhapMang(a, n, m);
 269
               XuatMang(a, n, m);
 270
 271
               printf("\n\n");
 272
 273
               // Phần tử phân biệt
 274
 275
```

```
Mang2Chieu.cpp -p X Mang1Chieu.cpp
String.cpp
                                         CauTrucLap.cpp
                                                       CauTrucReNhanh.cpp
apTrinhBanBan
                                                     (Global Scope)
 265
               int a[SIZE][SIZE];
 266
               int n = 0, m = 0;
 267
 268
               NhapDongCot(n, m);
 269
               NhapMang(a, n, m);
               XuatMang(a, n, m);
 270
 271
 272
               printf("\n\n");
 273
               // Phần tử phân biệt
 274
 275
               int b[SIZE], k = 0;
 276
 277
 278
               printf("\n-----
               for (int i = 0; i < n; i++)
 279
 280
                   for (int j = 0; j < m; j++)
 281
         Ė
 282
                        if (KiemTraTonTaiTrongMang(b, k, a[i][j]) == 0)
 283
 284
 285
                            b[k] = a[i][j];
 286
                            k++;
 287
 288
                   printf("\n");
 289
 290
 291
               printf("\nCo %d gia tri phan biet", k);
 292
               XuatMang1Chieu(b, k);
 293
 294
 295
 296
```

```
Select Microsoft Visual Studio Debug Console
Nhap so dong (n > 0): 4
        --Mang 2 chieu-----
                         16
6
                 12
        18
13
                 11
        18
                                                                                                                    2:31:13
Co 12 gia tri phan biet
Phan tu trong mang:
                                                  12
                                                           19
                         16
                                 6
                                          18
                                                                                             11
C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 17376) exited with code 0.
Press any key to close this window . . .
```

```
Mang2Chieu.cpp -p X Mang1Chieu.cpp
SplitString.cpp
                                            CauTrucLap.cpp
                                                           CauTrucReNhanh.cpp
■ LapTrinhBanBan
                                                         (Global Scope)
    265
                  int a[SIZE][SIZE];
                  int n = 0, m = 0;
    266
    267
    268
                  NhapDongCot(n, m);
    269
                  NhapMang(a, n, m);
                  XuatMang(a, n, m);
    270
    271
                  printf("\n\n");
    272
    273
                  // Phần tử phân biệt
    274
    275
    276
                  int b[SIZE], k = 0;
    277
    278
                  printf("\n-----
                  for (int i = 0; i < n; i++)
    279
    280
                      for (int j = 0; j < m; j++)
    281
            282
                           if (KiemTraTonTaiTrongMang(b, k, a[i][j]) == 0)
    283
    284
    285
                               b[k] = a[i][j];
                                k++;
    286
    287
    288
                      printf("\n");
    289
    290
    291
                  printf("\nCo %d gia tri phan biet", k);
    292
                  XuatMang1Chieu(b, k);
    293
    294
    295
    296
```

Nhap so dong (n > 0): 4

Co 11 gia tri phan biet Phan tu trong mang: 

--Mang 2 chieu-

Press any key to close this window . . .

C:\Users\nvdangkhoa\Desktop\LapTrinhBanBan\Debug\LapTrinhBanBan.exe (process 20148) exited with code 0.