

Universidad Nacional Autónoma de México



Facultad de Ingeniería

Ingeniería en Computación

Estructuras de Datos y Algoritmos I

Actividad Asíncrona 3 miércoles "Sudoku"

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14/03/2021

Código

```
C:\Users\gabo-\OneDrive\2do Semestrre\EDA 1\Codigos\sudoku.cpp - Dev-C++ 5.11
                                                                                                                                                            - o ×
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug [*] sudoku.cpp escitala.cpp
                        //Carmona García Gabriel Alexander
                    3 #include<stdio.h>
                    void casillas();
int x,fila,column
                        int x,fila,columna;
                    8= int sudoku[9][9]={
                             $5,3,0,0,7,0,0,0,0},

{6,0,0,1,9,5,0,0,0},

{0,9,8,0,0,0,6,0,0,3},

{8,0,0,0,6,0,0,0,3},
                              {7,0,0,0,2,0,0,0,6},
                              {0,6,0,0,0,0,2,8,0},
                              {0,0,0,4,1,9,0,0,5},
                              {0,0,0,0,0,8,0,7,9},
                   printf("Para salir pulse 99 en la opcion de la variable a escoger\n");
                             system("pause");
                             system("cls");
for(int i=0;i<9;i++){</pre>
                   25
                                 for(int j=0;j<9;j++){
                                                    ",sudoku[i][i]);
                              printf("\n \n");
                              do{
                                   casillas();
                              }while(x != 99);
                    34 <sup>[</sup> }
                    36  void casillas(){
                              printf("\nDime el numero que vas a poner: ");
                              scanf("%d",&x);
                              if(x<10 & x!=99){
                             1+(x<10 & x!=99){
  printf("\nEn que fila quieres tirar: ");
  scanf("%d",&fila);
  printf("\nEn que columna quieres tirar: ");
  scanf("%d",&columna);
  sudoku[fila-1][columna-1]= x;
  veta("al")</pre>
                    41
                              system("cls");
for(int i=0;i<9;i++){</pre>
                    46
                                   for(int j=0;j<9;j++){
                              printf("--%d-- | ",sudoku[i][j]);
                              printf("\n \n");
 Compiler 🖣 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results
```

Inicio

```
C:\Users\gabo-\OneDrive\2do Semestrre\EDA 1\Codigos\sudoku.exe
```

Ejemplo antes de poner un número

Ejemplo después de decir el número

Sudoku en proceso

```
C\Users\gabo-\OneDrive\2do Semestrre\EDA 1\Codigos\sudoku.exe
```

Sudoku completado

```
C\Users\gabo-\OneDrive\Zdo Semestre\EDA 1\Codigos\sudoku.exe
-5-- | -3-- | -4-- | -6-- | -7-- | -8-- | -9-- | -1-- | -2-- |
-6-- | -7-- | -2-- | -1-- | -9-- | -5-- | -3-- | -4-- | -8-- |
-1-- | -9-- | -8-- | -3-- | -4-- | -2-- | -5-- | -6-- | -7-- |
-8-- | -5-- | -9-- | -7-- | -6-- | -1-- | -4-- | -2-- | -3-- |
-2- | -2- | -6-- | -8-- | -5-- | -3-- | -7-- | -9-- | -1-- |
-7-- | -1-- | -3-- | -9-- | -2-- | -4-- | -8-- | -5-- | -6-- |
-9-- | -6-- | -1-- | -5-- | -3-- | -7-- | -2-- | -8-- | -4-- |
-2-- | -8-- | -7-- | -4-- | -1-- | -9-- | -6-- | -3-- | -5-- |
-3-- | -4-- | -5-- | -2-- | -8-- | -6-- | -1-- | -7-- | -9-- |

Dime el numero que vas a poner:
```

Sudoku basado en la siguiente imagen:

5	3	4	6	7	8	9	1	2
6	7	2	1	9	5	3	4	8
1	9	8	თ	4	2	5	6	7
8	5	9	7	6	1	4	2	3
4	2	6	8	5	3	7	9	1
7	~	3	9	2	4	8	5	6
9	6	_	5	3	7	2	8	4
2	8	7	4	1	9	6	3	5
3	4	5	2	8	6	1	7	9