

**Mr. Giansante**



# **Visual Basic**

**Sudoku**

**August 2016**

# Sudoku

## Difficulty Level:

Beginner  
Intermediate  
Advanced

## Help References:

DataGridView

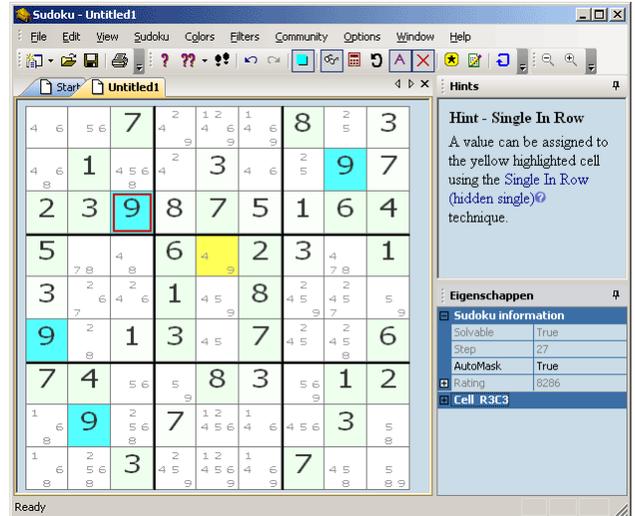
Design a Visual Basic program that simulates the game of Sudoku.

To the right is a screenshot of a sharware Sudoku program. It is included only as an example. Your program does not need to look like this, nor does it need to have all the features.

Your game does not need to generate the puzzles; they can simply be stored in your game in arrays.

Mr. Giansante can provide you with a program to generate arrays from a grid you fill out.

Your game should have at least 50 stored puzzles.



# Sudoku

Please fill out all the information in this column using a pen before getting this assignment marked.

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Class

## Academic Honesty

The work I am submitting is completely my own creation and has not been copied from anyone else's work. If I have received help on this project, the names of those who have assisted are listed below.

\_\_\_\_\_  
Signature

\_\_\_\_\_

\_\_\_\_\_

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## Pre-Marking

The following people have pre-marked this assignment: (minimum of two)

\_\_\_\_\_

\_\_\_\_\_

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## Deductions

Each  which is checked indicates the item was not satisfactory and results in the loss of one mark.

Deduction for late assignment is 1 mark per day.

Deduction for program crashing is 2 marks.

## User Interface

- Appropriate Text in Title Bar (Form.Text)
- Separators and Access Keys in Menu, Capitalization
- "Exit" DialogBox meets requirements
- "About" DialogBox meets requirements
- Efficient and Esthetically-Pleasing User Interface
- Appropriate controls are used
- Spelling and Grammar are correct

## Code / Programming Style

- Variables are declared and logically named
- Code is commented where appropriate
- Code is indented and spaced to show
- Code is efficient

## Work Ethic / Problem Solving Skills

- Problem Solving Skills are demonstrated
- Makes Productive Use of Time
- Only Seeks Help when Necessary

## Program-Specific Criteria

- New Games can be generated (min. 50 games)
- Permanent numbers cannot be changed
- Numbers can be entered and changed
- Permanent numbers and entered numbers are distinguishable (color, boldness, etc.)
- A winner is detected and a message is displayed

## Comments

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**Mark** \_\_\_\_\_ / 10