

3 Stockley Park

Longwalk

Hayes

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**M&S Technical assessment:**

**The challenge**

We would like you to build a game of Sudoku, using the rules below.

You will be scored for your Code structure, Code complexity, Testing, User Interface and Documentation.

It can be done in any programming language of your choice and must be run-able via the command line. Please either send through the packaged code or share the location that we can view or download from.

Please allow yourself at least 2 hours to complete this exercise and if you run out of time please document and explain what you would have done next if you had more time.

**The Rules of Sudoku**

The classic Sudoku game involves a grid of 81 squares. The grid is divided into nine blocks, each containing nine squares.

The rules of the game are simple: each of the nine blocks has to contain all the numbers 1-9 within its squares. Each number can only appear once in a row, column or box.

The difficulty lies in that each vertical nine-square column, or horizontal nine-square line across, within the larger square, must also contain the numbers 1-9, without repetition or omission.

Every puzzle has just one correct solution.