

## Povzetek

V diplomski nalogi je predstavljena igra Quatrainment. V prvem delu je opis same igre in njenih pravil ter način poteka. Drugi del zajema algoritem reševanja, ki je prikazan s pomočjo matrik. Algoritem omogoča, da rešitve ni potrebno ugibati, temveč jo je mogoče izračunati. Na koncu pa je prikazanih še nekaj primerov, pri katerih se pravila igranja spremenijo.

## Abstract

The game Quatrainment is presented in this diploma paper. The description of the game and its rules are presented in the first part of the paper. The second part of the paper includes the solution algorithm, which is presented with the help of matrices. The algorithm enables us to solve the game by calculating instead of guessing the solution. A few examples of how the rules of the game can change are presented at the end of the paper.

Math. Subj. Clas. (2010): 91A46, 91A55.

Ključne besede: matrika, inverz, determinanta, igra.

Keywords: matrix, inverse, determinant, game.

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