



Comenius University in Bratislava Faculty of Mathematics, Physics and Informatics

## THESIS ASSIGNMENT

Name and Surname:		Bc. Barbora Klembarová			
Study programme:		Computer Science (Single degree study, master II. deg., full			
		time form)			
<b>Field of Study</b>	<b>':</b>	Computer	Science, Informatics		
Type of Thesis	s:	Diploma T	Thesis		
Language of ]	Thesis:	English			
Secondary language: Slovak					
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Title:	Complexity of s	olving puzz	eles		
Aim:	The goal of this thesis is to select a small set of puzzles and to investigate various				
aspects of their complexity			elect a small set of puzzles and to investigate various		
	dispects of their v	ompiexity.			
	The nuzzles we	are interest	ted in are activities for a single player that require		
logical thinking		are interes	ted in die deuvides for a single player that require		
	Examples of such puzzles include Paint-By-Numbers Sudoku and Sokoban				
	The complexity of these puzzles can be defined in multiple ways				
Primarily, we can define it a puzzle instance is solvat			ine it as the computational complexity of deciding whether olyable		
	On the other han	d we can measure and eventually even model the difficulty of			
	an instance for a l		human solver		
	In this thesis the a		uthor should investigate these complexity measures of several		
puzzles (using re		eal data about human solvers where available) and they should			
	discuss the relation between the different complexity measures.				
Supervisor:	RNDr. Mi	hal Foríšel	k, PhD.		
<b>Department:</b>	FMFI.KI -	Departmen	nt of Computer Science		
Head of	prof. RND	r. Martin Š	koviera, PhD.		
department:					
Assigned	29 02 201	ĥ			
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Approved:	13 04 2010	Ď	prof. RNDr. Rastislav Kráľovič PhD		
<b>PPvw</b>	10.01.201	-	Guarantor of Study Programme		

Student

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Supervisor