

LAST NAME:

FIRST NAME:

MATRICULATION NUMBER:

SCORE

1(a)	1(b)	2(a)	2(b)	2(c)	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
3(a)	3(b)	4			5
<input type="text"/>	<input type="text"/>	<input type="text"/>			<input type="text"/>

TOTAL

GRADE

1 (a) *calculation + explanation*

(b) *calculation + explanation*

2 *definition, algorithm and example calculation*

3 convexity answer + brief explanation, calculation

Question	Yes	No
The decision procedure for difference logic is based on Dijkstra's shortest-path-algorithm.	<input type="checkbox"/>	<input type="checkbox"/>
In order to detect equalities for constraints $A\vec{x} \leq \vec{b}$, Bromberger and Weidenbach's method invokes the simplex algorithm on $A\vec{x} > \vec{b}$.	<input type="checkbox"/>	<input type="checkbox"/>
The small-model property of LIA is essential for termination of the branch-and-bound algorithm.	<input type="checkbox"/>	<input type="checkbox"/>
SAT is a decision problem in PSPACE.	<input type="checkbox"/>	<input type="checkbox"/>
$\forall x, y. x \neq y \wedge x \leq u \wedge v \leq y \longrightarrow a[x] = b[y] + 3$ can be reformulated into an equivalent array property.	<input type="checkbox"/>	<input type="checkbox"/>

spare page