# **American Computer Science League**

Contest #3

## **Elementary Division**

考号/Exam Code:	姓名/Name:	学校/School:	
1. Boolean Algebra			1.
Evaluate the follow			
NOT (15 +			
2. Boolean Algebra	2.		
Which ordered pairs make the following statement TRUE?			
NOT (A O			
3. Boolean Algebra			3.
How many ordered	l pairs make the following sta	tement FALSE?	
~(~A * ~B)	) + A * B		
4. Boolean Algebra			4.
Simplify the following Boolean expression:			
$\sim (A * \sim B) + \sim (\sim A * B)$			
5. Boolean Algebra			5.
Determine which of the following Boolean expressions are TRUE more often than when they are FALSE:			
A) ~(~B) · B) A + ~B			
C) A * ~B			
D) ~(A * l	5)		

# **ACSL**

2018 - 2019

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Contest #3

## **Elementary Division**

考号/Exam Code:	姓名/Name:	学校/School:	
1. Boolean Algebra			1.
计算下述表达式			
NOT (1:			
2. Boolean Algebra	2.		
哪些有序对能值			
NOT (A			
3. Boolean Algebra			3.
有多少个有序双	寸能使下述表达式为假?		
~(~A * ~	(B) + A * B		
4. Boolean Algebra		4.	
简化下述布尔表	达式:		
~(A * ~B	) + ~(~A * B)		
5. Boolean Algebra			5.
判断下列哪一个	个布尔表达式为真比他们为假	员时更常见:	
A) ~(~B B) A + · C) A * · D) ~(A	~B		