# Quiz

Total Time: 10 minutes

Question 1: Fill in the missing entries for the expression: not (A and not B or not C and D)

1:1100001

2:01101011

3: 1 0 1 0 0 0 1 0

	В	c	Ь	Q
О	О	0	О	ı
0	О	0	1	0
0	0	1 1	0	?
0	О	1.	1	?
0	1	0	0	1
0	1	0	1	?
0	1	1 1	0	1
0	1	1.	1	1
1	О	0	0	?
1	О	0	1	0
1	О	1 1	0	?
1	О	1.	1	?
1	1	0	0	1
1	1	0	1	?
1	1	1 1	0	?
1	1	1 1	1 1	1

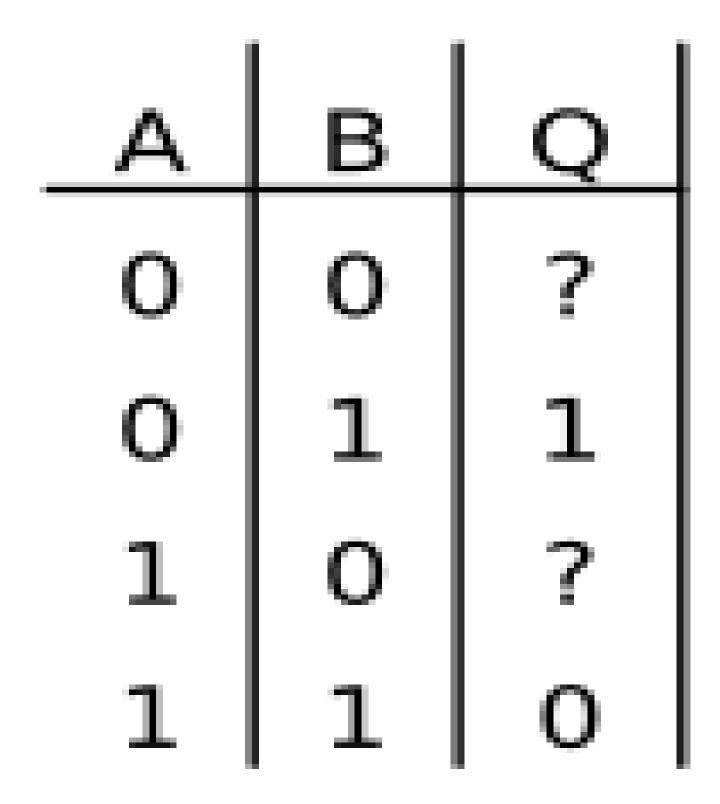
Question 2: Fill in the missing entries for the expression: not (A or not B)

1: 0 1

2:00

3: 1 0

4: 1 1



Question 3: Fill in the missing entries for the expression: not (A or not B and C or D)

1:10111001

2:00101000

3:00000000

	В	c	Ь	Q
0	0	0	0	1
О	О	0	1	?
0	О	1 1	0	?
О	О	1.	1.	О
О	1	0	0	?
0	1	0	1	?
0	1	1 1	0	?
О	1	1 1	1	О
1	О	0	0	0
1	0	0	1	0
1	О	1 1	0	0
1	О	1 1	1	?
1	1	0	0	?
1	1.	0	1	?
1	1.	1 1	0	0
1	1	1 1	1 1	0

Question 4: Fill in the missing entries for the expression: not (A or not B and not C)

1:0110

2: 1 1 1 0

3: 0 0 0 0

4: 1 1 0 0

A	в	С	Q
О	О	О	О
О	О	1	?
О	1	О	?
О	1	1	1 1
1	О	О	?
1	О	1	О
1	1	О	О
1	1	1	?

Question 5: Fill in the missing entries for the expression: A and not B and C and D

1:00000100

2:00011111

3: 1 0 1 1 0 1 1 0

	В	c	Ь	Q
О	О	0	О	?
0	0	0	1	?
0	0	1 1	0	?
0	0	1 1	1.	0
О	1	0	О	О
0	1	0	1 1	?
0	1	1 1	0	0
0	1	1 1	1	?
1	0	0	0	О
1	0	0	1 1	0
1	0	1 1	0	0
1	0	1 1	1 1	?
1	1	0	0	О
1	1	0	1	?
1	1	1 1	0	0
1	1	1 1	1 1	?

Question 6: Fill in the missing entries for the expression: A and B or not C and D or not E

1:1000111010110010

2:1101101101001010

3:1110001111010001

$\sim 1$	В	C	Ь	⊫	Q
0 0 0		0 0		0	
0	0000	0	0 1 0	-	^ 0 1 1 ~ 0 ~ 0 1 0 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
0	0		<b>3L</b>	0	<b>1</b> .
0	0	0	<b></b>		<b>1</b>
0	0	<b>1</b> .	0	0	~
0	0	1_	0	<b>1</b>	0
0	0	1 0	1 1 0	0	?
0	0	<b>1</b> .	<b>3</b> .	<b>3</b> L	0
0	- TL	0	0	0	<b>1</b> L
0	1	0	0	1 0	0
0	<b>1</b> .	0	011001100	0	~
0	<b>T</b> L.	0	<b>II</b> .	1 0	3
0	<b>1</b> .	<b>1</b>	0	0	3
0	<b>3</b> L	<b>1</b> .	0	0	3
0	<b>1</b> L	<b></b>	<b>I</b>	0	1_
0	1 0	1 0 0	<b>I</b>	1 0	3
<b>1</b> .	0	0	0	0	<b>1</b> L
<b>1</b> .	0	0	0	<b>1</b> .	2
<b>1</b> L	0	0	TH.	0	3
<b>1</b>	0		<b>I</b>	<b></b> _	?
<b>1</b> .	0	<b>1</b> .	0	0	3
э. э.	0 0 0	1	1 0 0	0	0
<b>1</b> .	0	<b>1</b>	<b>1</b> .	0	<b>1</b>
<b>⊐</b> L	0	<b>1</b> .	<b>3</b> L	<b></b>	3
<b>1</b> .	<b>1</b> .	0	0	0	1
<b>1</b>	<b>I</b>	0	0	⊐.	3
<b>1</b> .	<b>3</b> L	0	<b>1</b> .	0	<b>1</b> .
<b>1</b> .	<b>3</b> L	0	<b></b>	<b>1</b>	2
<b>⊐</b> L	<b>3</b> L		0	0	<b>3</b> L
<b>1</b> .	<b>3</b> L	<b></b>	0	<b>1</b> .	<b>1</b>
<b></b>	<b>3</b> L	<b></b>	<b></b>	0	3-
<b>1</b> .	<b>1</b> .		<b>1</b> .	<b>1</b> .	1

Question 7: Fill in the missing entries for the expression: A or B and not C and D

1:01001110

2:00001111

3: 1 1 0 0 0 0 0 0

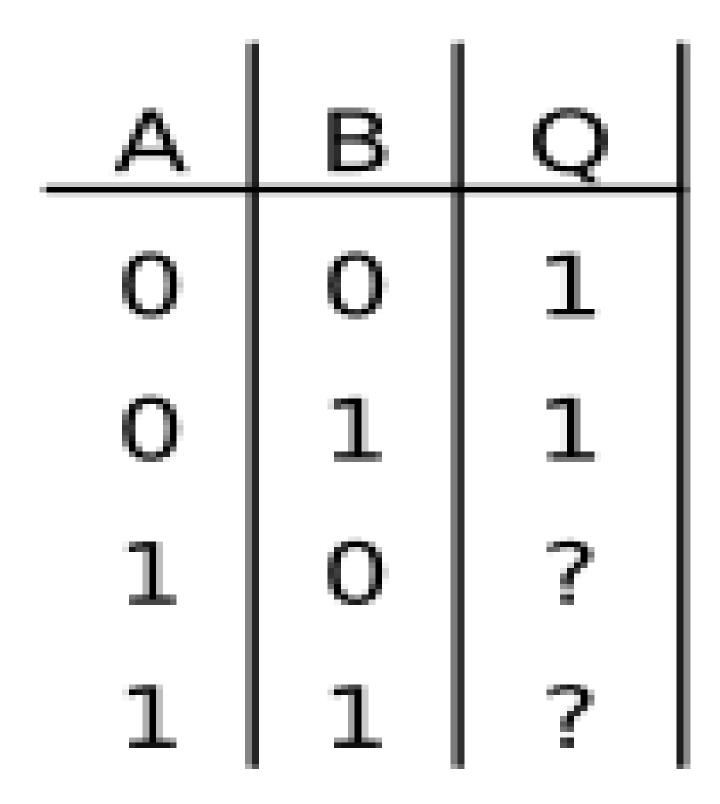
	В	c	Ь	Q
О	О	0	О	?
0	О	0	1 1	?
0	0	1 1	0	0
0	0	1 1	1.	?
О	1	0	0	?
0	1	0	1 1	?
0	1	1 1	0	0
0	1	1 1	1 1	О
1	0	0	0	1
1	О	0	1 1	1
1	0	1 1	0	1
1	0	1 1	1 1	?
1	1	0	0	1
1	1	0	1 1	?
1	1	1 1	0	1
1	1	1 1	1 1	?

1: 1 0

2:00

3: 1 1

4: 0 1



Question 9: Fill in the missing entries for the expression: A and not B or not C or D and not E

1:0011000101111101

2:1101011000101010

3:111111110110100

$\triangle$	В	l c	Ь		Q
0 0 0	0	0		0	~
0	0	0	0	<b>1</b>	???!
0	0	0	011001100	0	?
0	0	0	T.	<b>1</b>	<b>1</b> .
0	0 0 0	<b>1</b> .	0	о О	0
0	0	<b>1</b> .	0	0	-5
0	0	<b>1</b> .	<b>1</b> 1.	0	3
0	0	<b></b>	<b>1</b> 1	0	
0	<b>3</b> L			0	<b>1</b>
0	<b>1</b> L	0		1	1_
0	<b>3</b> L	0	1		3-
0	<b>3</b> L	0	<b>1</b> 1	<b>1</b> 1.	<b>1</b> .
0	<b>1</b> .				-5
0	3L	_	0	1	0
0	<b>1</b>	<u> i</u>	<b>1</b> 1.		<b>1</b>
0		<u> </u>	1 0	0	1 ? 2 ? 0 1 0 1 ?
э э	0				<b>1</b> .
<b>1</b> .	0	0	0	0	
<b>1</b> L	0	0	3L	0	<b>1</b>
<b></b> _	0	0	1 0	0	1_
<b>ユ</b>	0	<b>1</b> .		0	<b>1</b>
<b>1</b> L	0	<b>1</b> 1	0	0	1 ? ?
<b>1</b>	0	<b></b>	<b>1</b> 1	0	-5
<b>1</b>	0	<b>1</b> .	<b>1</b> 1	<b>1</b> L.	<b>1</b>
<b>1</b>	<b>1</b> .	0		0	-5
<b>1</b>	<b>1</b> .	0	0	<b>1</b> .	1
<b>1</b> .	<b>3</b> L	0	<b>1</b> .	0	-5-
<b>1</b> .	<b>3</b> .	0	<b>1</b> 1	<b>1</b> .	?
<b>3</b> L	<b>3</b> L		0	0	
<b>1</b>	<b>3</b> L	<b></b> _	0	<b>1</b> .	3
<b></b>	<b>3</b> L	<b></b>	<b></b>	0	<b>1</b>
<b></b>	<b>3</b> L	I 3L I	<u>ı</u>	<b></b> _	?

Question 10: Fill in the missing entries for the expression: A and B and not C and not D or E

1:1111011001000011

2:1001101011101010

3:0011110001001001

	В	C	Ь	⊫	Q
0	0		0	0	0
000000000000	0		0	<b>1</b> L	?
0	0		<b>1</b> .	0	~
0	0		<u> </u>	<b>11</b> .	<u> </u>
0	0	1 1 1	0		1??0???10?0
0	0	<u> </u>		1	-5
0	0	<u> </u>	<b>1</b> L		0
0	0	1 0	<b>3</b> L	<b></b>	~
0	<b>1</b>		0	0	~
0	<b>1</b>			<b>1</b>	~
0	<b>T</b> L	0	1	0	-5
0	<b>T</b>		1 0	э О	1
0	э.	<b>1</b> 1	0	0	0
0	<b></b> _	1 1 1	0	<b>11.</b>	->
0	l –n l	<b>1</b>	<b></b>	0	0
0	⊐∟.		<b></b>	<b>1</b> .	<b>1</b> .
<b>1</b>	0		0	0	
<b>1</b>		0	0	<b>3</b> L	-5
<b>1</b> L	0 0 0 0 0 0		1 1 0	0	O ? ? ? ?
<b>1</b>	0		<b>1</b> .	<b></b>	2
<b>1</b> .	0	11.	0	0	-
<b>1</b> .	0	1_	0	1	~
<b>1</b> .	0	1	а а		2
<b>1</b> L	0	11.	<b>3</b> L	<b>1</b>	<b>1</b> .
<b>1</b> .	⊐_		0	0	<b>1</b>
<b>1</b> .	⊐∟		0	<b>1</b> .	-
<b>1</b> L	<b>1</b> L		<b>11</b> .	0	~
<b>1</b>	<b>1</b> .		<b>1</b> 1	<b>1</b> .	<b>1</b>
<b>T</b>	<b>I</b>	11.	0	0	0
1	⊐.	1_	0	<b>1</b>	<b>1</b>
<b>1</b> .	<b>1</b> L	1_	<b>11</b> .	0	0
<b>1</b>	<b>1</b> .	1_	<b>1</b> 1	<b>1</b> .	

#### **Answers**

### Answer to Question 1:

Correct Option: 1: 1 1 0 0 0 0 0 1

А	в	c	D	Q
О	О	0	О	1
О	О	0	1	0
0	О	1	0	1
0	О	1 1	1	1
О	1	0	0	1
0	1	0	1	0
О	1	1 1	0	1
О	1	1 1	1	1
1	О	0	0	0
1	О	0	1	0
1	О	1 1	0	0
1	О	1 1	1	0
1	1	0	0	1
1	1	0	1	0
1	1	1 1	0	1
1	1	11	1	1 1

Correct Option: 2: 0 0

<u>A</u>	В	Q
0	0	0
0	1	1
1	0	0
1	1	0

Correct Option: 2: 0 0 1 0 1 0 0 0

А	в	c	Ь	Q
О	О	О	О	1
О	О	0	1	0
0	О	1	0	0
0	О	1 1	1	0
0	1	0	0	1
0	1	0	1	0
О	1	1 1	0	1
О	1	1 1	1	0
1	О	0	0	0
1	О	0	1	0
1	О	1 1	0	0
1	О	1 1	1	0
1	1	0	0	0
1	1	0	1	0
1	1	1 1	0	0
1	1	11	1	О

Answer to Question 4:

Correct Option: 4: 1 1 0 0

A	В	С	Q
О	О	О	О
О	О	1	1
О	1	О	1
О	1	1	1
1	О	О	О
1	О	1	О
1	1	О	О
1	1	1	0

Answer to Question 5:

Correct Option: 1: 0 0 0 0 0 1 0 0

А	В	c	D	Q
О	0	О	0	О
О	О	0	1	0
О	О	1	0	0
0	О	1 1	1	0
О	1	0	0	0
О	1	0	1	0
О	1	1	0	0
О	1	1	1	0
1	О	0	0	0
1	О	0	1	0
1	О	1 1	0	0
1	О	1	1	1
1	1	0	0	0
1	1	0	1	0
1	1	1 1	0	0
1	1	1 1	1	0

### Answer to Question 6:

Correct Option: 4: 1 1 1 1 1 1 0 0 0 1 1 1 0 1 1 1

	В	c	Ь	E	Q
0	0	0	0	0	<b>1</b> L
0	0	0	0	1	0
0	0	0	1 1	0	<b>1</b> .
0	0	0	1 1	1	<b>1</b> L
0	0	<u> </u>	0	0	<b>1</b> L
0	0		0	1	0
0	0	1.	1.	0	1_
0	0	11.	1.	1	0
0	1	0	0	0	<b>1</b> L
0	1	0	0	1	0
0	1	0	1 1	0	1
0	1	0	1 1	1	1_
0	1.	1 1	0	0	1
0	1	1_	0	1	0
0	1	1 1	1 1	0	1
0	1	<u>1</u>	1	ュ	0
<b>1</b> .	0	0	0	0	1
<b>1</b> .	0	0	0	1	0
1	0	0	1	0	<b>1</b> .
<b>1</b> .	0	0	1 1	1.	1
<b>1</b> .	0		0	0	<b>1</b>
<b>1</b> .	О	<u> </u>	0	1	0
<b>1</b> .	0	1 1	1.	0	1_
<b>1</b> .	0	<u> </u>	1 1	1 1	0
<b>1</b> .	1	0	0	0	<b>1</b> .
1	1.	0	0	1	<b>1</b> .
1	1.	0	1.	0	<b>3</b> L
1	1	0	1	1	1_
ı	1	1 1	0	0	<b>3</b> L
1	1	1_	0	1	<b>3</b> L
1	1.	1 1	1.	0	<b>3</b> L
<b>1</b>	<b>1</b>	<u>ı</u>	<b>1</b>	1	1_

Correct Option: 2: 0 0 0 0 1 1 1 1

А	в	c	D	Q
О	О	0	О	О
О	О	0	1	0
О	О	1 1	0	0
0	О	1 1	1	0
О	1	0	0	0
0	1	0	1	1
О	1	1 1	0	0
О	1	1 1	1	О
1	О	0	0	1
1	О	0	1	1
1	О	1 1	0	1
1	О	1 1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1 1	0	1
1	1	1 1	1	1

Correct Option: 4: 0 1

_A	В	Q
0	0	1
0	1	1
1	0	0
1	1	1

### Answer to Question 9:

Correct Option: 4: 1 1 1 0 1 1 0 1 1 1 1 1 1 0 0 0

	В	c	Ь	⊫	Q
0	0	0	0	0	1
0	О	0	0	1	ᅟᅟᅟᅟ
0	О	0	1	О	1
0	О	0	1.	1	<b>ユ</b>
0	О	1 1	0	О	0
0	0	1 1	0	1	0
0	О	1.	1	О	1
0	0		1	1	0
0	1_	0	0	О	1
0	1.	0	0	1	1
0	1	0	1	О	1
0	1.	0	1	1	1
0	1		0	О	0
0	1	<b>1</b> 1.	0	1	0
0	1	<b>1</b> 1	1.	О	1
0	1	1.	1.	1	0
1	0	0	0	0	1
1.	0	0	0	1	1 1
1.	0	0	1.	О	1
1	0	0	1.	1	1
1	0	1.	0	О	1
1	0	1 1	0	1	1
1	0		1.	0	1_
1.	0	12.	1.	1	1
1	1	0	0	О	1
1.	1	0	0	1	1
1	1	0	1	0	1
1.	1	0	1.	1	1_
1.	1.	1.	0	0	0
1.	1	1 1	0	1	0
<b>1</b> .	1	1 1	1.	0	1_
1.	1	1 1	1	1	0

### Answer to Question 10:

Correct Option: 2: 1 0 0 1 1 0 1 0 1 1 1 0 1 0 1 0

$\Delta$	В	c	D	E	Q
0	0	0	0	0	0
0	0	0	0	1	1
0	0	0	1 1	0	0
0	0	0	1.	1	1 1
0	О	<b></b> _	0	0	0
0	0	<b>1</b> 1.	0	<b>1</b> .	1 1
0	0	<b>1</b>	1	0	0
0	0	1 1	1.	1 1	1
0	1.	0	0	0	0
0	1.	0	0	<b>1</b> .	1 1
0	1	0	1 1	0	0
0	1	0	1.	1.	1
0	1		0	0	0
0	1	<b></b> _	0	1	1 1
0	1	<b></b> _	1	0	0
0	1	<b>1</b> 1	1.	<b>1</b> .	1
1	0	0	0	0	0
<b>1</b> .	0	0	0	1.	1 1
1.	0	0	11.	0	0
1	О	0	1.	1.	1
1	0	<b>1</b> .	0	0	0
1	0	1 1	0	1.	1
<b>1</b> .	0	<b>1</b> .	1.	0	0
<b>1</b> .	0	<b>1</b> 1	1 1	1.	1 1
1	1	0	0	0	1
1	1	0	0	<b>1</b> .	1
1	1.	0	1.	0	0
1	1.	0	1.	<b>1</b> .	1_
1	1.	1 1	0	0	0
1	1	1 1	0	<b>1</b>	1_
1	1	1 1	1	0	0
1	1	1 1	1 1	1	<u> </u>