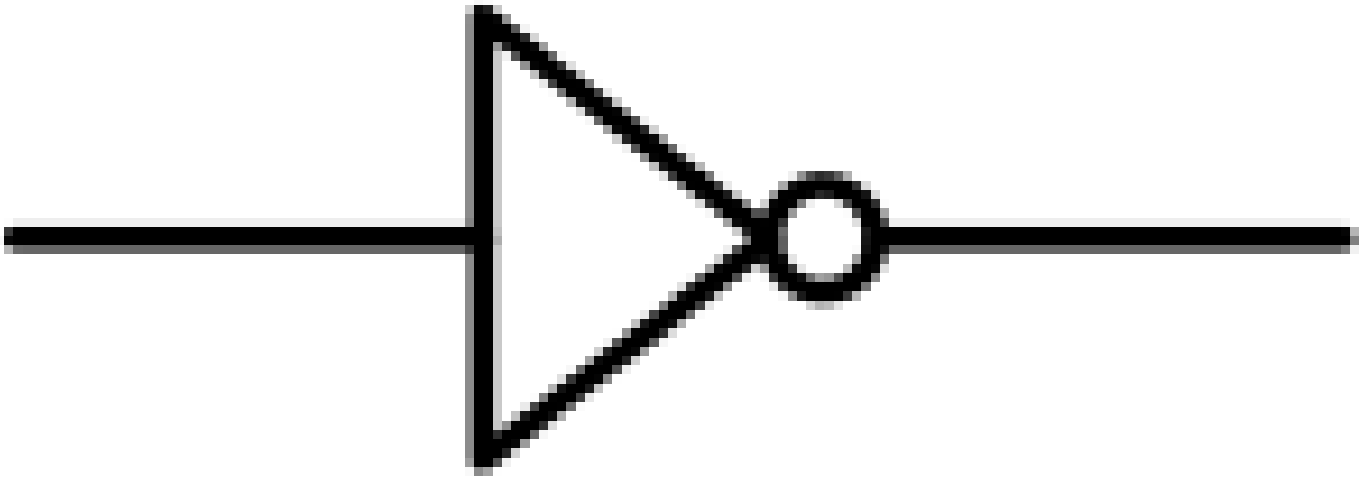
Question 1:

What is the output of the NOT gate with input 1?



Options:

1. 0

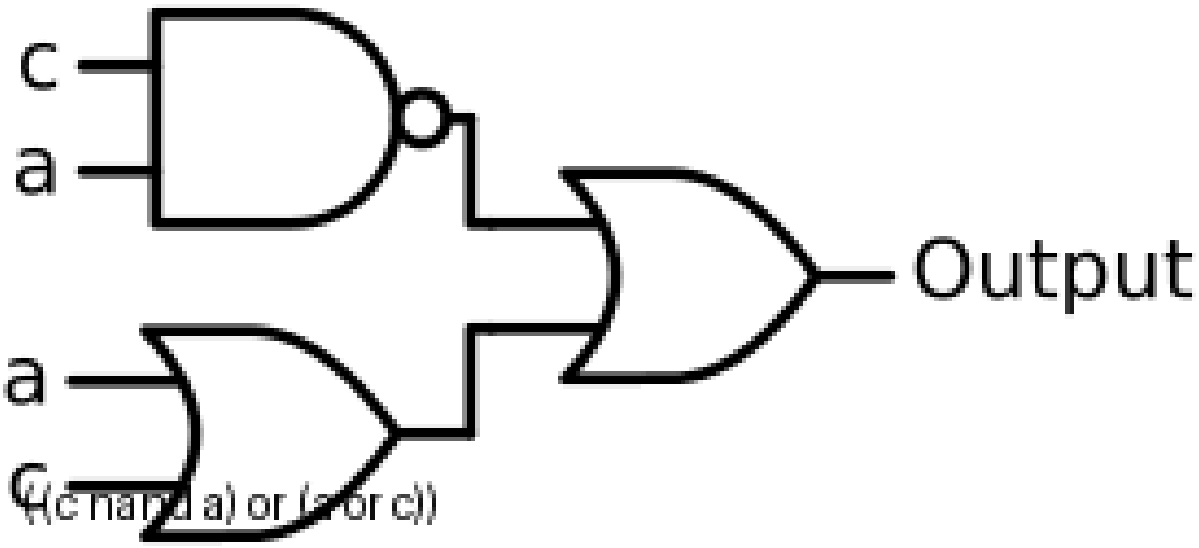
2. 1

Correct Answer: 0

Question 2:

What is the simplified form of the logic expression?

((c nand a) or (a or c))

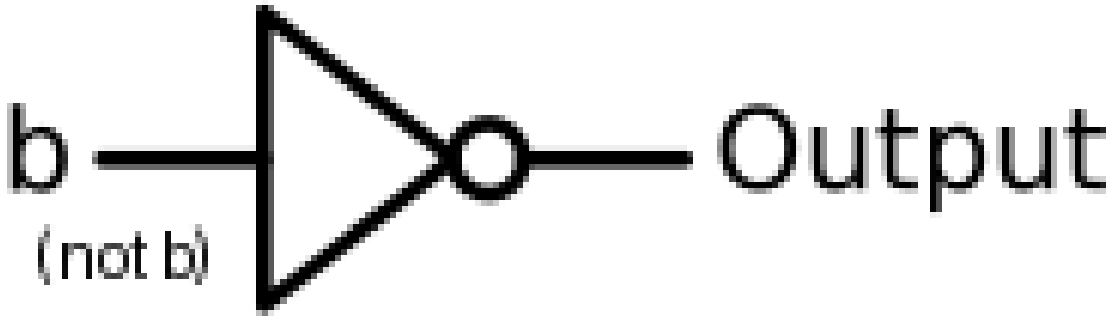


Correct Answer: ((c nand a) or (a or c))

Question 3:

What is the simplified form of the logic expression?

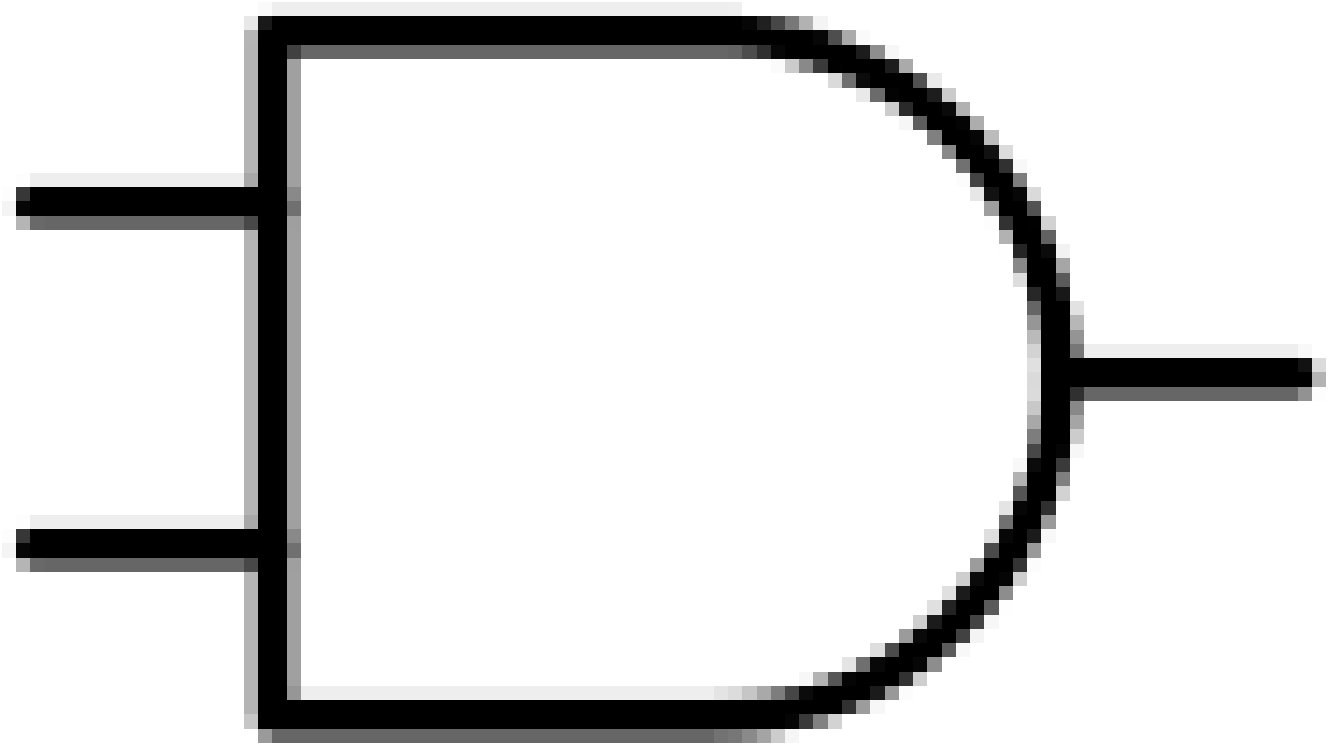
(not b)



Correct Answer: (not b)

Question 4:

What is the output of the AND gate with inputs 0, 1?



Options:

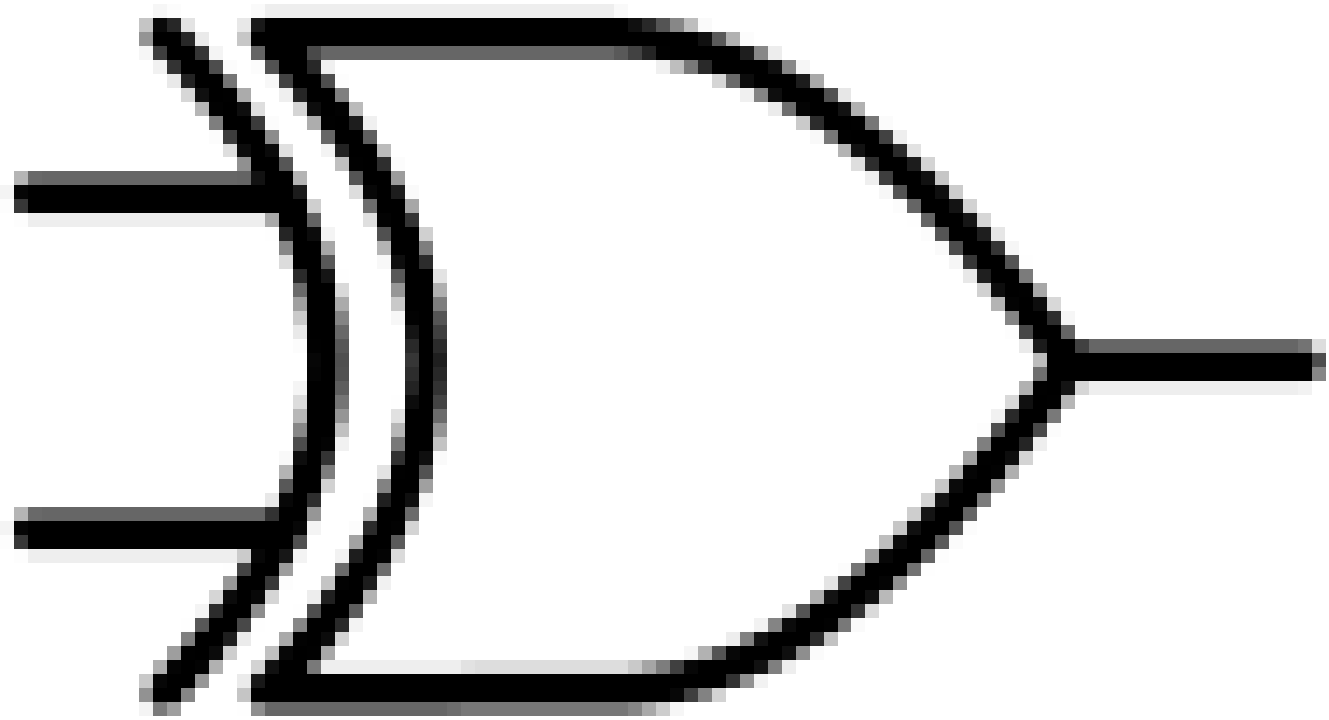
1. 1

2. 0

Correct Answer: 0

Question 5:

What is the output of the XOR gate with inputs 1, 0?



Options:

1. 1

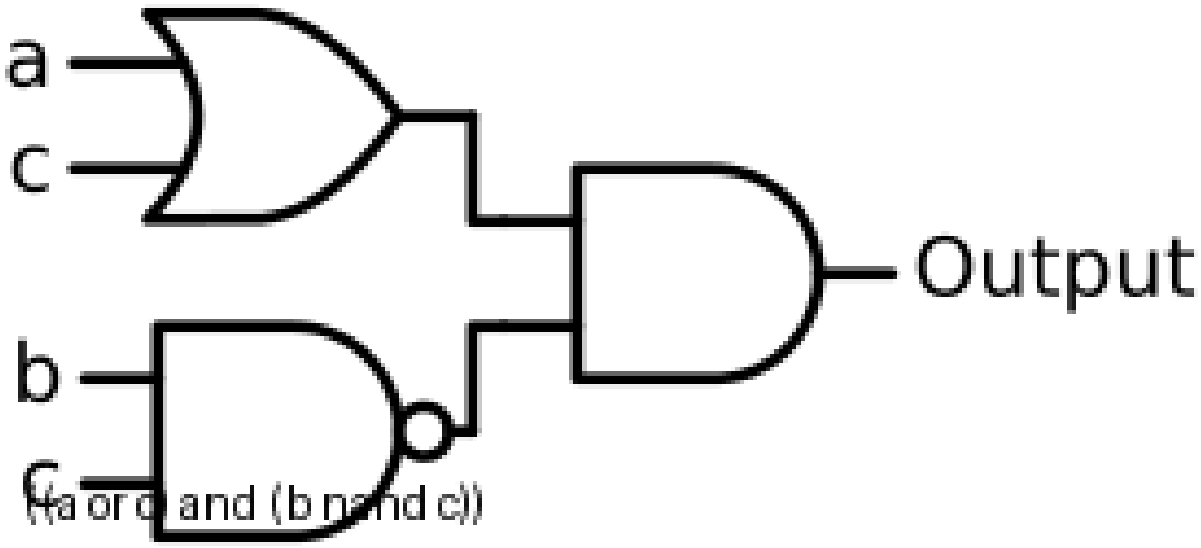
2. 0

Correct Answer: 1

Question 6:

What is the simplified form of the logic expression?

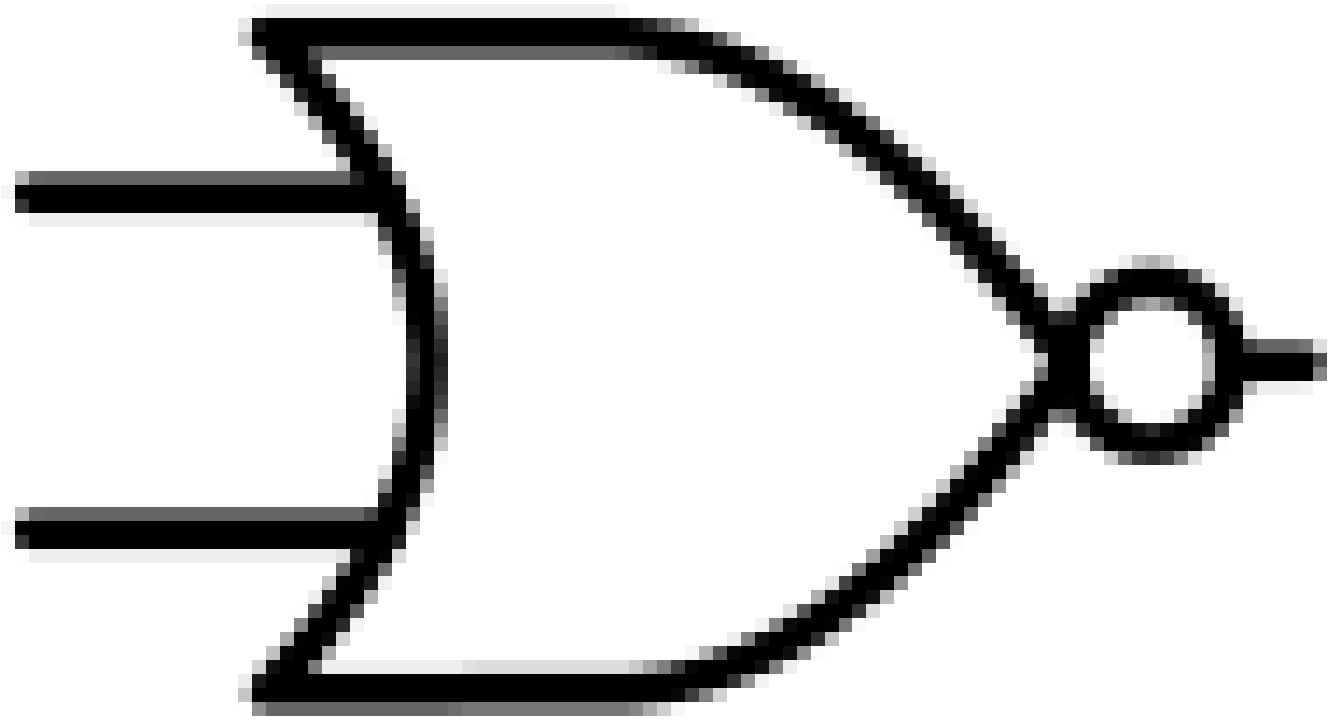
((a or c) and (b nand c))



Correct Answer: ((a or c) and (b nand c))

Question 7:

What is the output of the NOR gate with inputs 0, 1?



Options:

1. 1

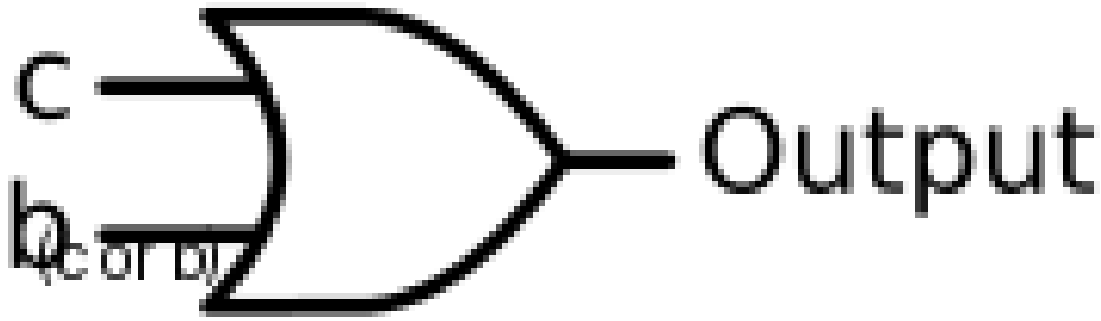
2. 0

Correct Answer: 0

Question 8:

What is the simplified form of the logic expression?

(c or b)

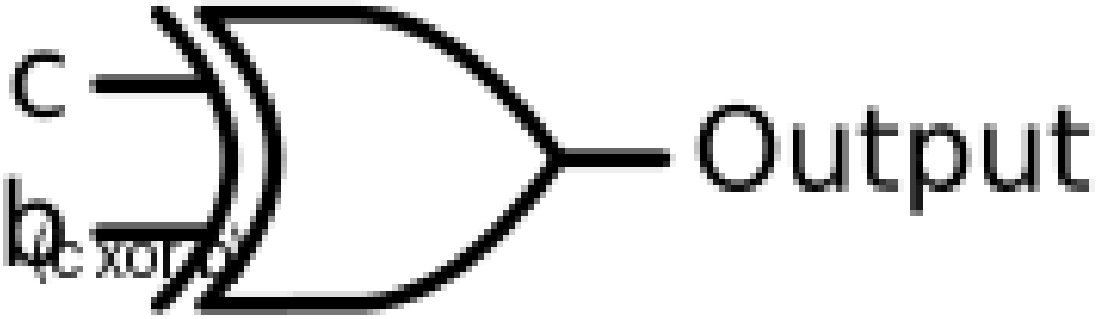


Correct Answer: (c or b)

Question 9:

What is the simplified form of the logic expression?

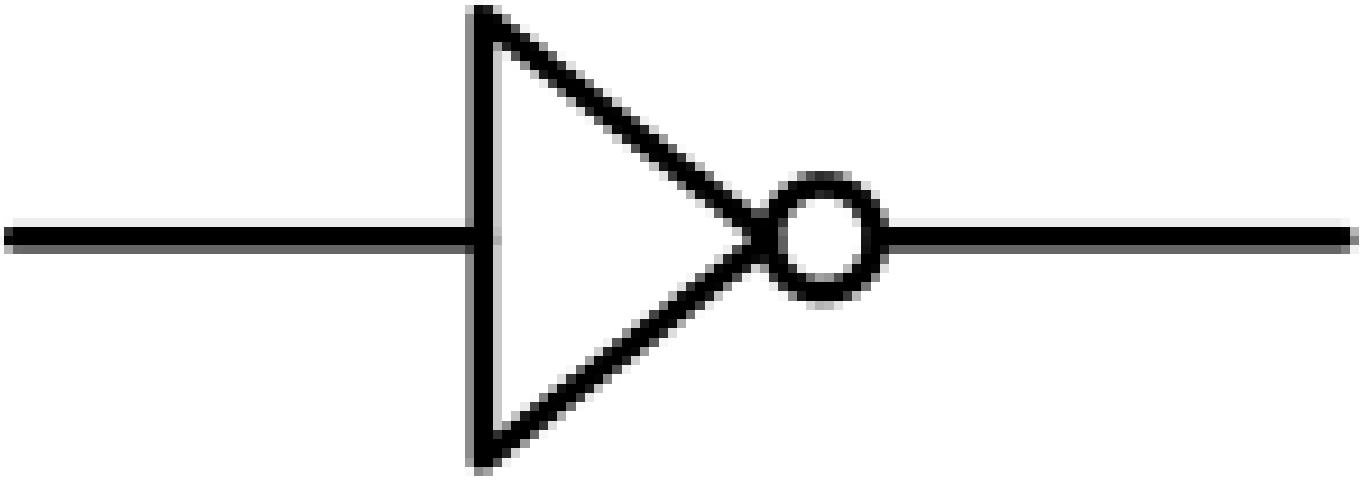
(c xor b)



Correct Answer: (c xor b)

Question 10:

What is the output of the NOT gate with input 0?



Options:

1. 0

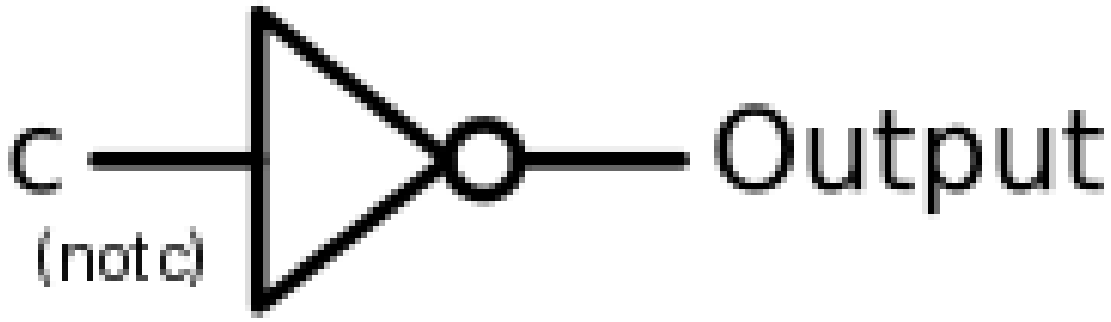
2. 1

Correct Answer: 1

Question 11:

What is the simplified form of the logic expression?

(not c)

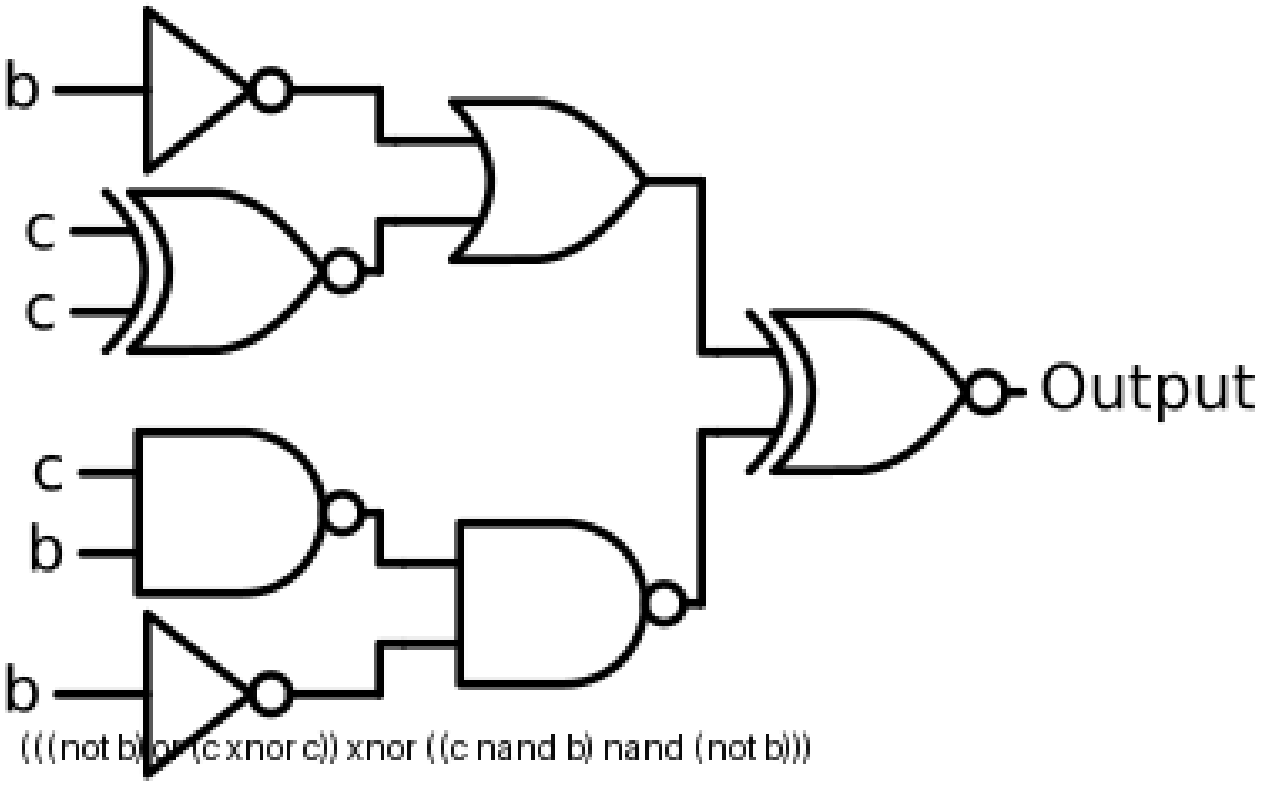


Correct Answer: (not c)

Question 12:

What is the simplified form of the logic expression?

(((not b) or (c xnor c)) xnor ((c nand b) nand (not b)))



Correct Answer: (((not b) or (c xnor c)) xnor ((c nand b) nand (not b)))