```
question
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```
What is the expected output of the following code?  x = 9   y = 12   result = x // 2 * 2 / 2 + y % 2 ** 3   print(result)
```

options

- a) 8
- b) 9.0
- c) 8.0
- d) 7.0

answer

option ${\bf c}$

Python Operator Precedence (from highest to lowest)

Precedence Level	Operator(s)	Description
1	()	Parentheses (grouping)
2	**	Exponentiation
3	+x, -x, ~x	Unary plus, minus, bitwise NOT
4	*, /, //, %	Multiplication, Division, Floor
		Division, Modulus
5	+, -	Addition, Subtraction
6	<<, >>	Bitwise shift
7	&	Bitwise AND
8	^	Bitwise XOR
9	× ×	Bitwise OR
10	Comparisons (==	, !=, <, >, <=, >=, is, in, etc.)
11	not	Logical NOT
12	and	Logical AND
13	or	Logical OR
14	=, +=, -=	
	(and other assignment operators)	

26/12*2/2+7%2**3
9/12*2/2+12%8
9/14/2+12%8
2.0 9
9/12.0+9
4.0+9