Trv again once vou are readv	A	Trv	again	once	vou	are	ready
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5. Consider the two following random arrays  $\boldsymbol{a}$  and  $\boldsymbol{b}$ :

a = np.random.randn(4,3) # a.shape = (4,3) b = np.random.randn(1,3) # b.shape = (1,3)

Grade received 70%

Latest Submission Grade 70% To pass 80% or higher

Try again

1/1 point

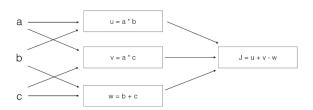
1.	In logistic regression given ${\bf x}$ and parameters $w\in\mathbb{R}^{n_x},b\in\mathbb{R}$ . Which of the following best expresses what we want $\hat{y}$ to tell us?	0/1 point
	$\sigma(W\mathbf{x})$ $P(y = 1 \mathbf{x})$ $P(y = \hat{\mathbf{y}} \mathbf{x})$ $\sigma(W\mathbf{x} + b)$	
	$igotimes$ Incorrect No. We want the output $\hat{y}$ to tell us the probability that $y=1$ given $x$ .	
2.	Suppose that $\hat{y}=0.5$ and $y=0$ . What is the value of the "Logistic Loss"? Choose the best option.	0/1 point
	○ 0.693 ○ 0.5	
	Mcorrect  No. This is only the definition of Logistic Loss.	
3.	Suppose img is a (32,32,3) array, representing a 32x32 image with 3 color channels red, green and blue. How do you reshape this into a column vector $\boldsymbol{x}$ ?	1/1 point
	∠ <sup>®</sup> Expand  ⊙ Correct	
4.	Consider the following random arrays $a$ and $b$ , and $c$ :	1/1 point
	a=np.random.randn(3,4) * a.shape=(3,4) $b=np.random.randn(1,4) * b.shape=(1,4)$ $c=a+b$ What will be the shape of $c$ ?	
	cshape = (3, 4)  cshape = (3, 1)  cshape = (1, 4)  The computation cannot happen because it is not possible to broadcast more than one dimension.	
	✓ Expand  ✓ Correct  Yes. Broadcasting is used, so row b is copied 3 times so it can be summed to each row of a.	

Which of the following arrays is stored in c?

c = a + b



10. Consider the following computation graph.



1/1 point

What is the output J?

(a) 
$$J = (a-1)*(b+c)$$
  
(J = (b-1)\*(c+a)  
(J = (c-1)\*(b+a)  
(J = a\*b+b\*c+a\*c



$$\textcircled{ \mathsf{Correct} } \\ \texttt{Yes.} J = u+v-w = a*b+a*c-(b+c) = a*(b+c)-(b+c) = (a-1)*(b+c).$$