You may ask questions as we go along

Mentimeter

3 questions
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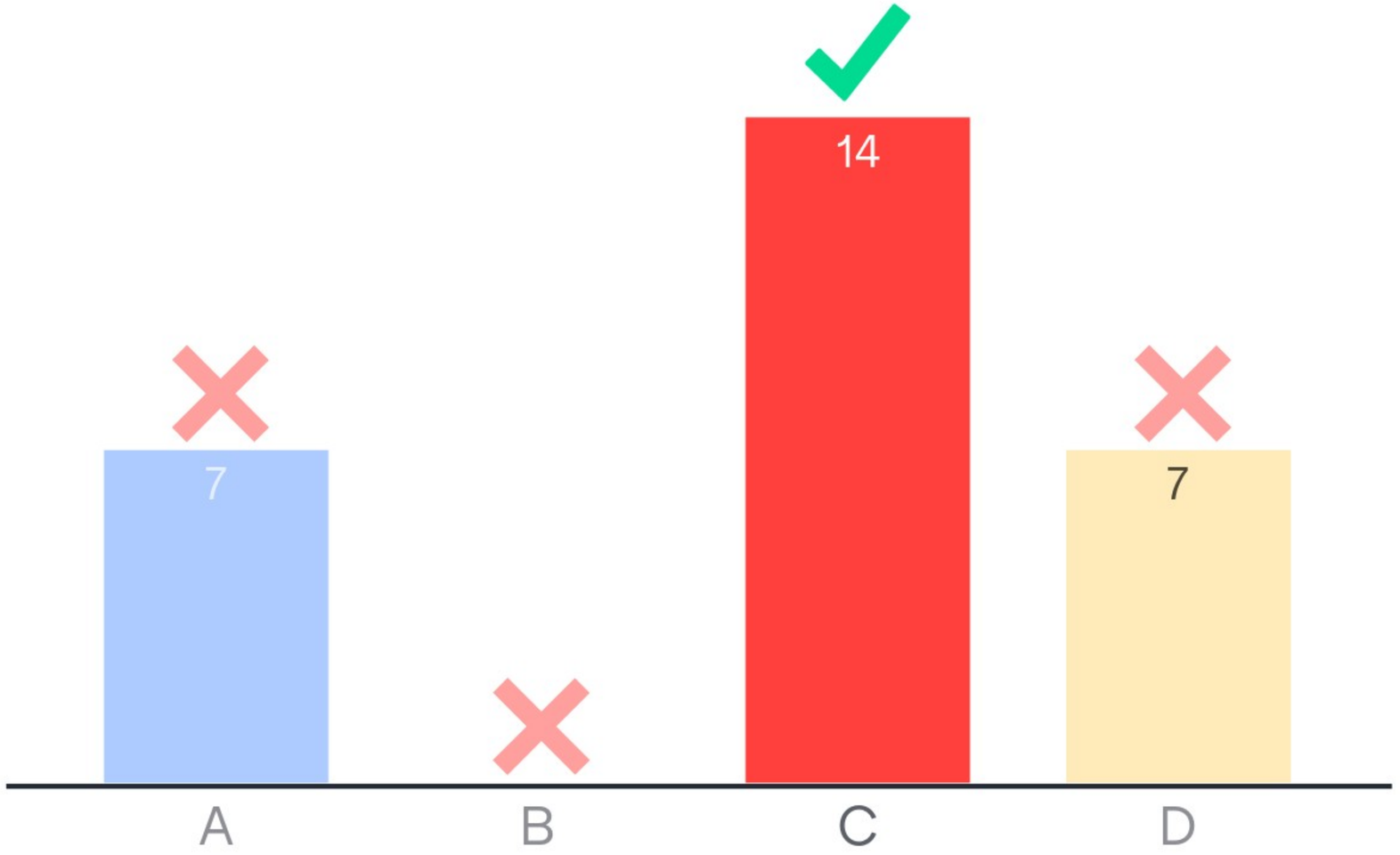
Quiz

Logistic function (sigmoid)

Mentimeter



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Which is the logistic function?

A. $y = \frac{1}{1+e^{z}}$

B. $y = \frac{1}{1-e^{z}}$

C. $y = \frac{1}{1+e^{-z}}$

D. $y = \frac{1}{1-e^{-z}}$

22

What is the derivative of the logistic function y=1/(1+exp(-x))?

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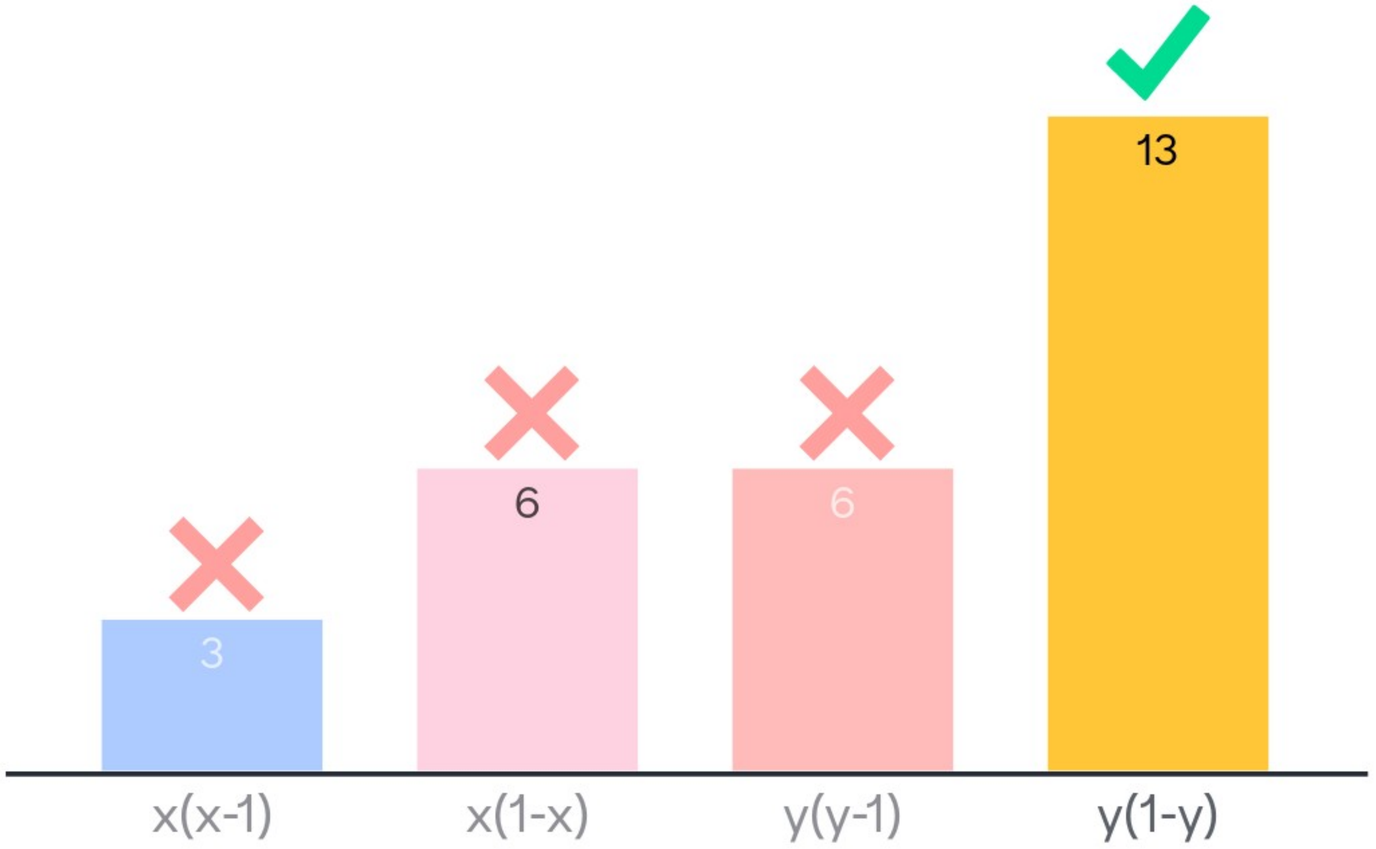

What is the preferred loss-function for logistic regression?

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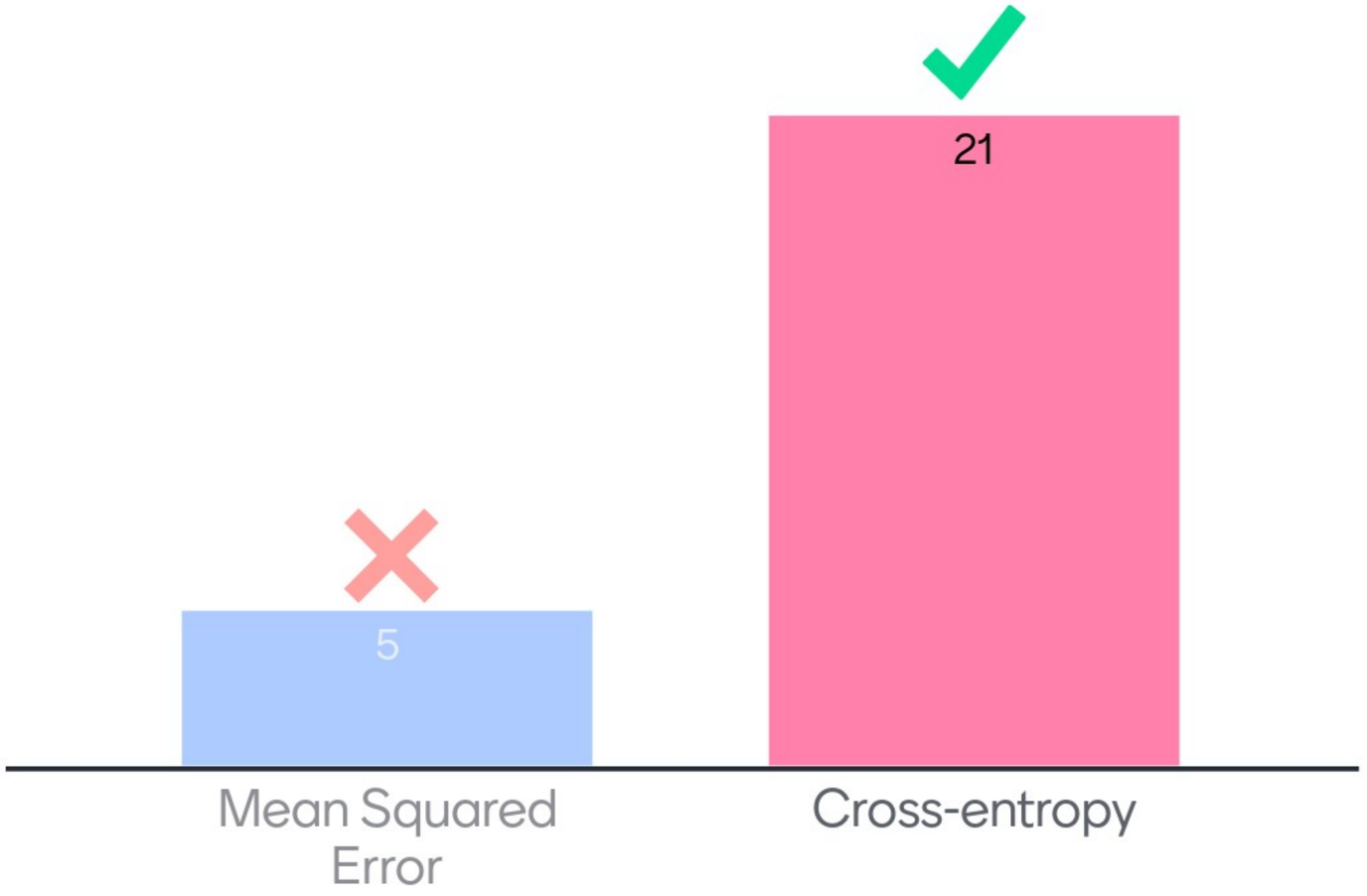
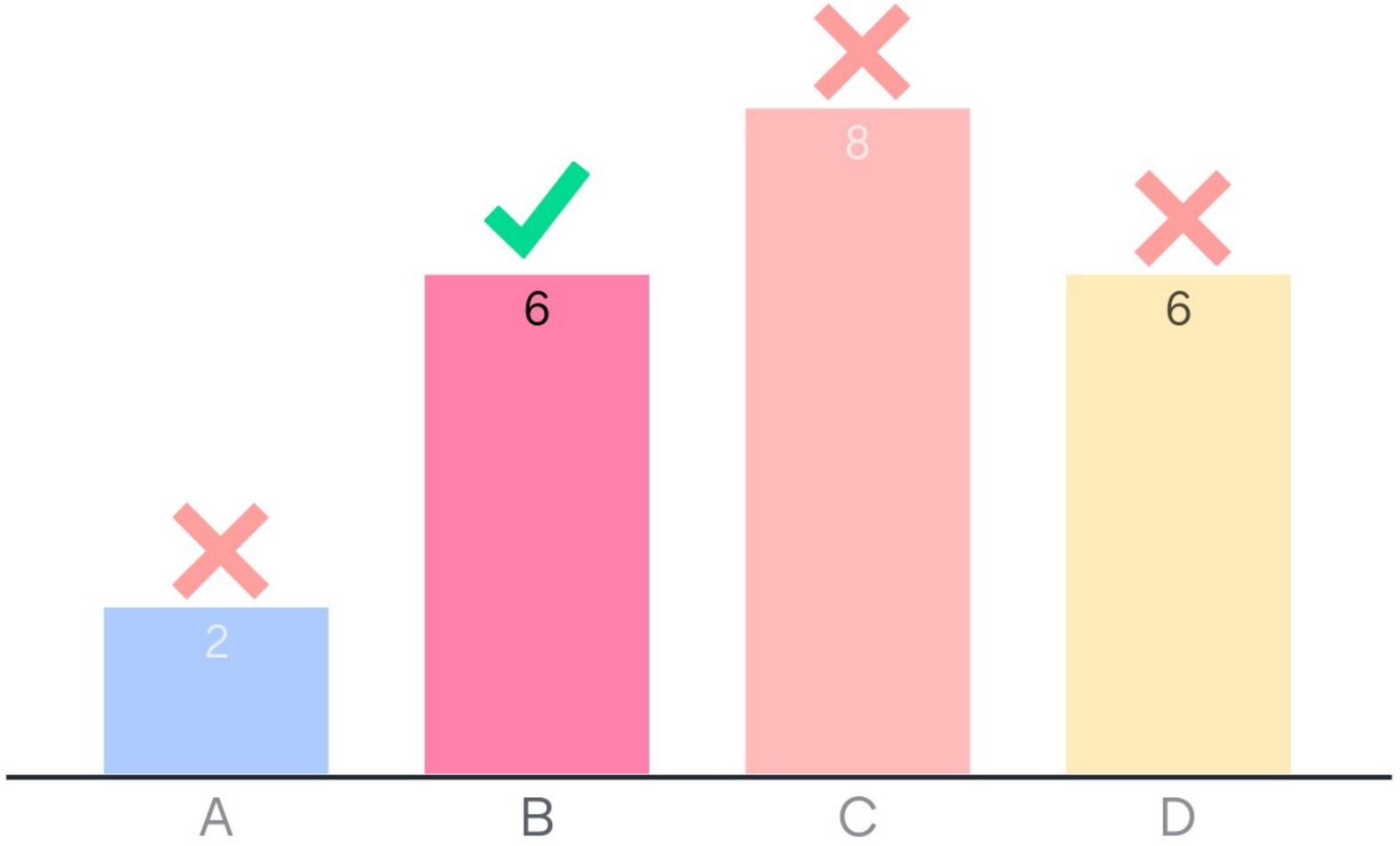


Cross-entropy loss

Mentimeter



With t as target and y as predicted value, what is the cross-entropy loss?

A. $(1 - t)\log(y) + t\log(1 - y)$

B. $t\log(y) + (1 - t)\log(1 - y)$

C. $y\log(t) + (1 - y)\log(1 - t)$

D. $(1 - y)\log(t) + y\log(1 - t)$

Leaderboard

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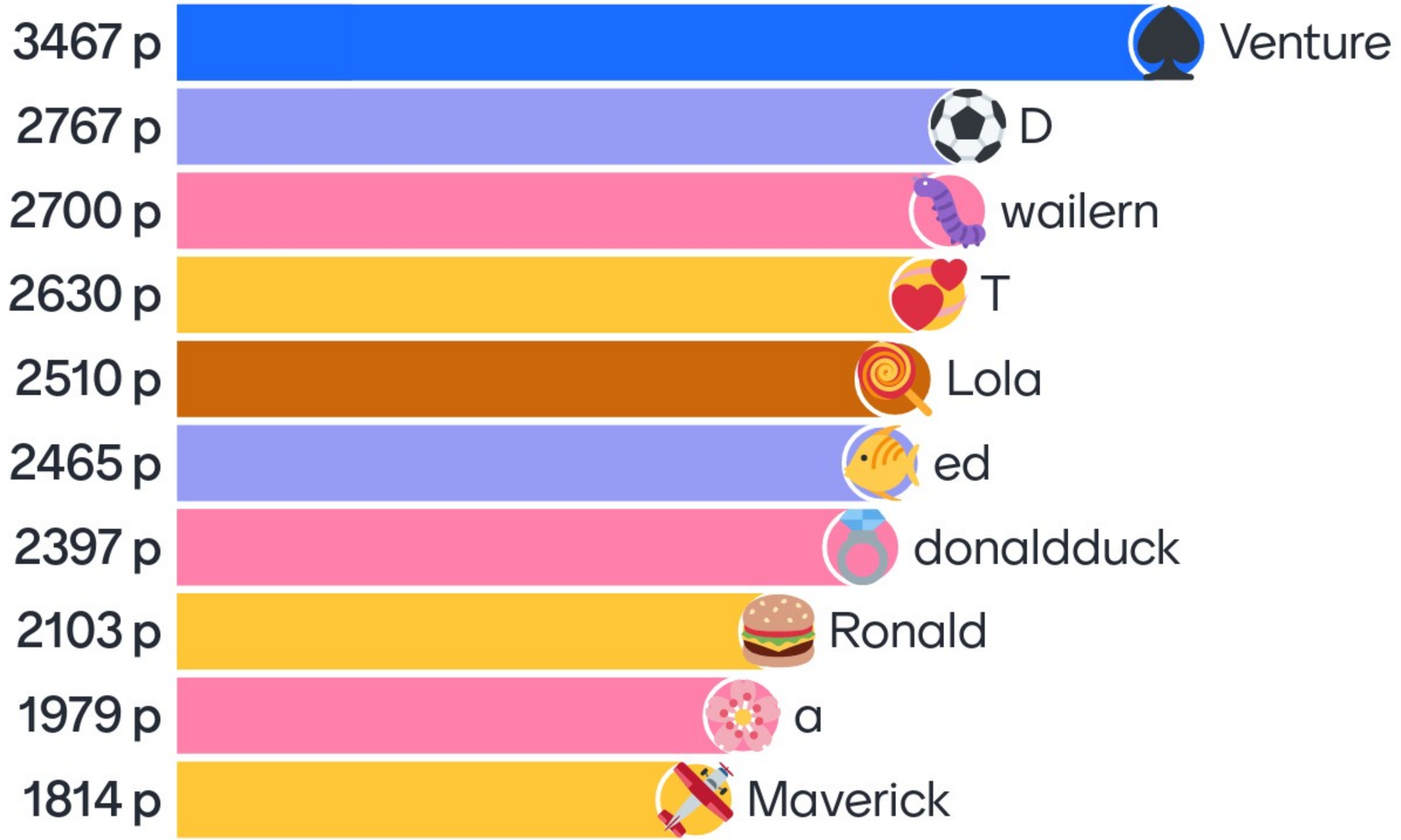

Which path describes stochastic gradient descent?

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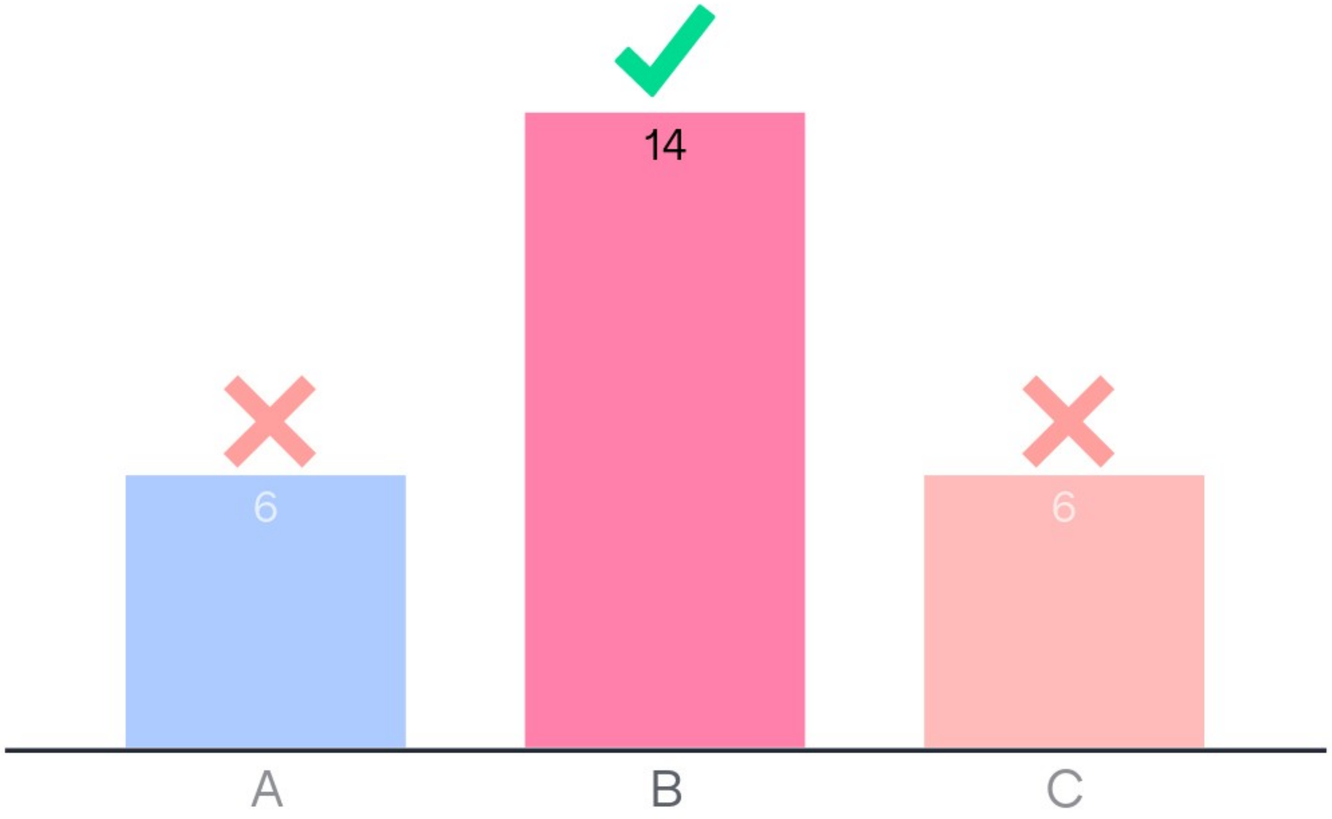

Batch gradient descent
Mini-batch gradient Descent
Stochastic gradient descent

When training a multi-layer Perceptron, will the loss on the training data start to increase?

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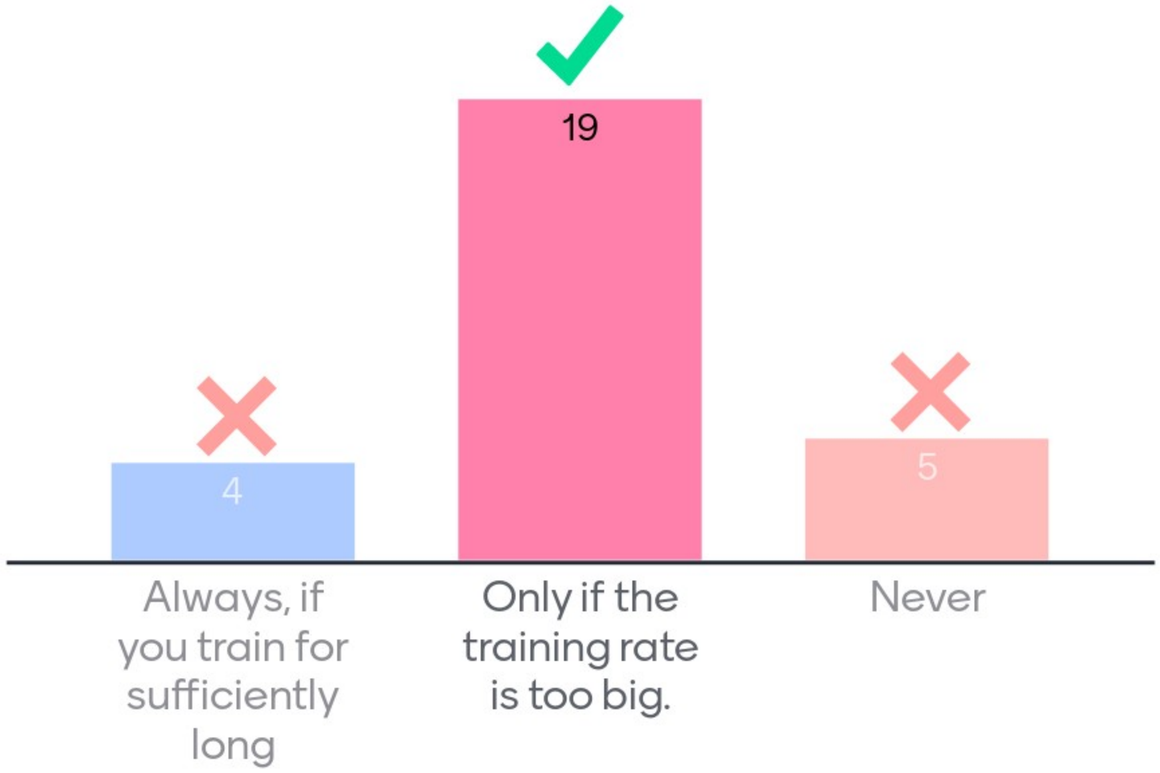

If you train for sufficiently long, will the loss on your validation data start to increase?

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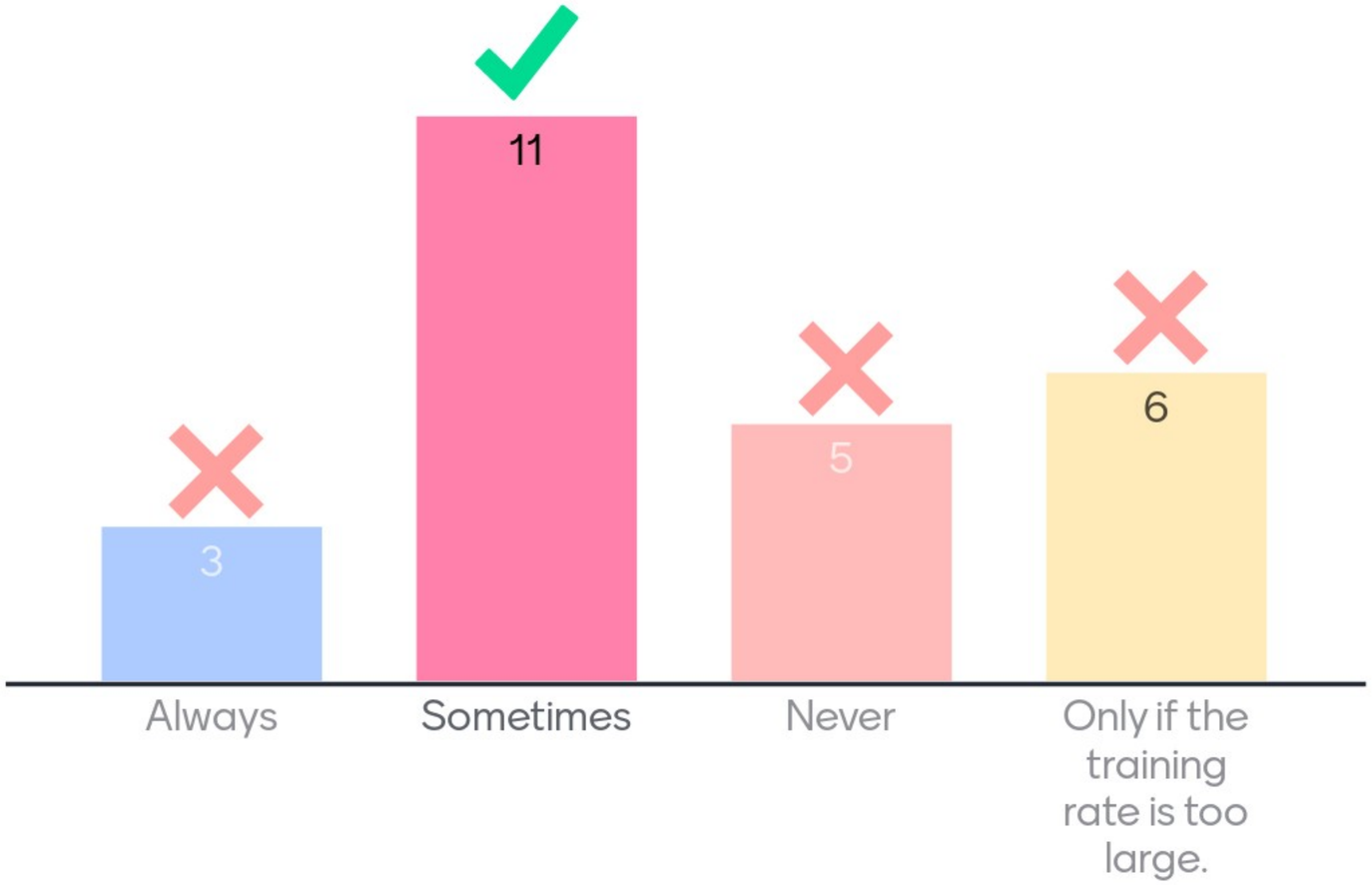

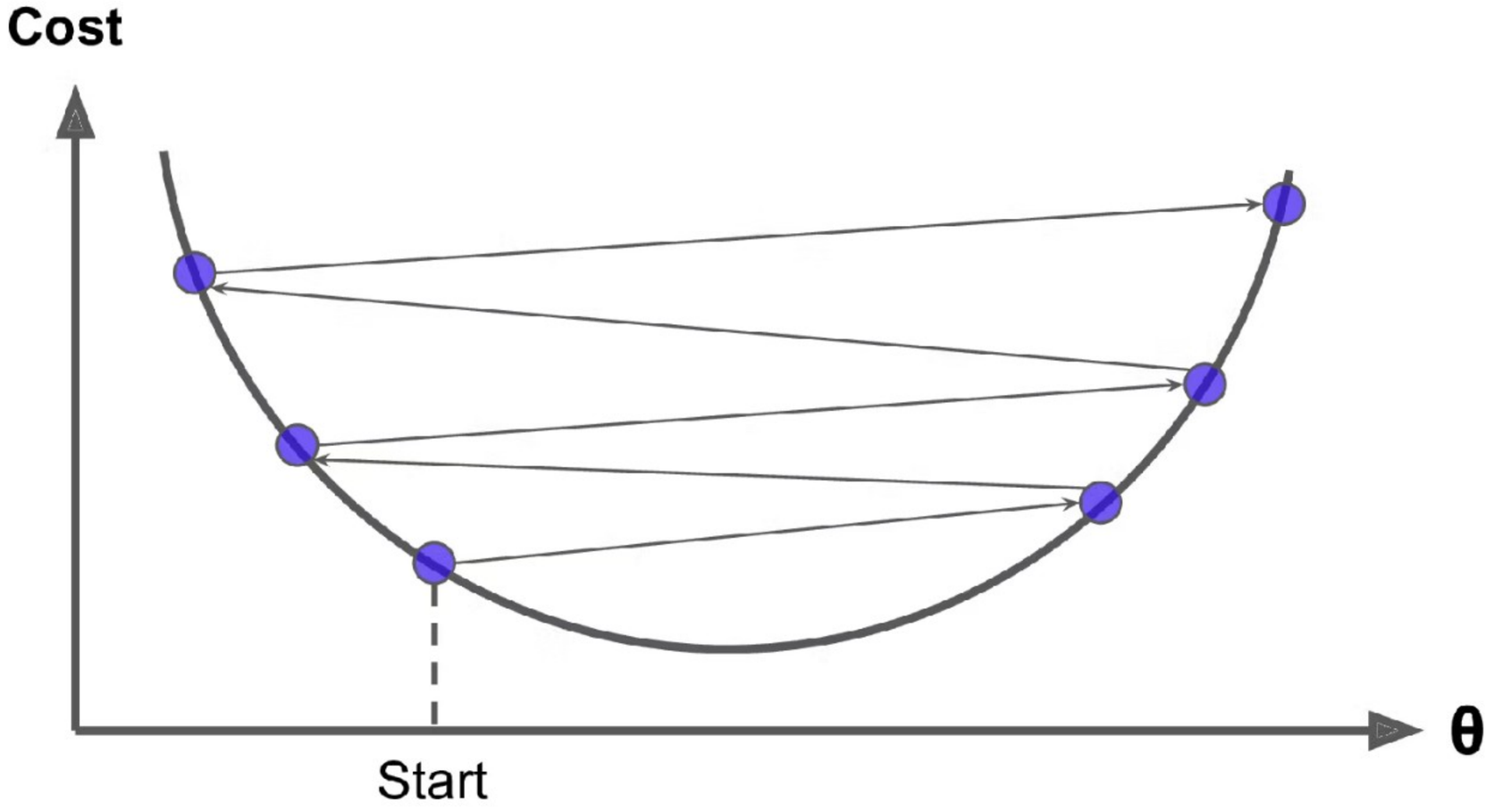

Source: Gueron Hands-on Machine Learning

With t_j as target and y_j as predicted for item j, the cross-entropy loss is the mean over ... for all j-s.

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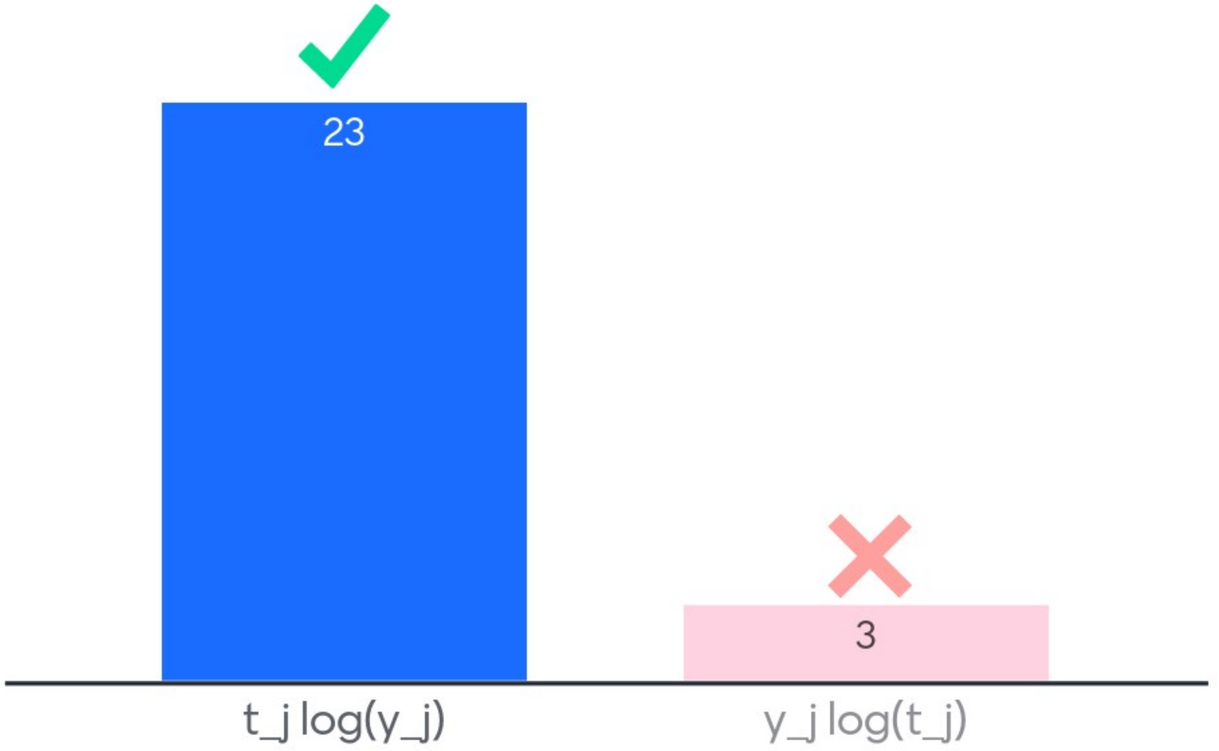

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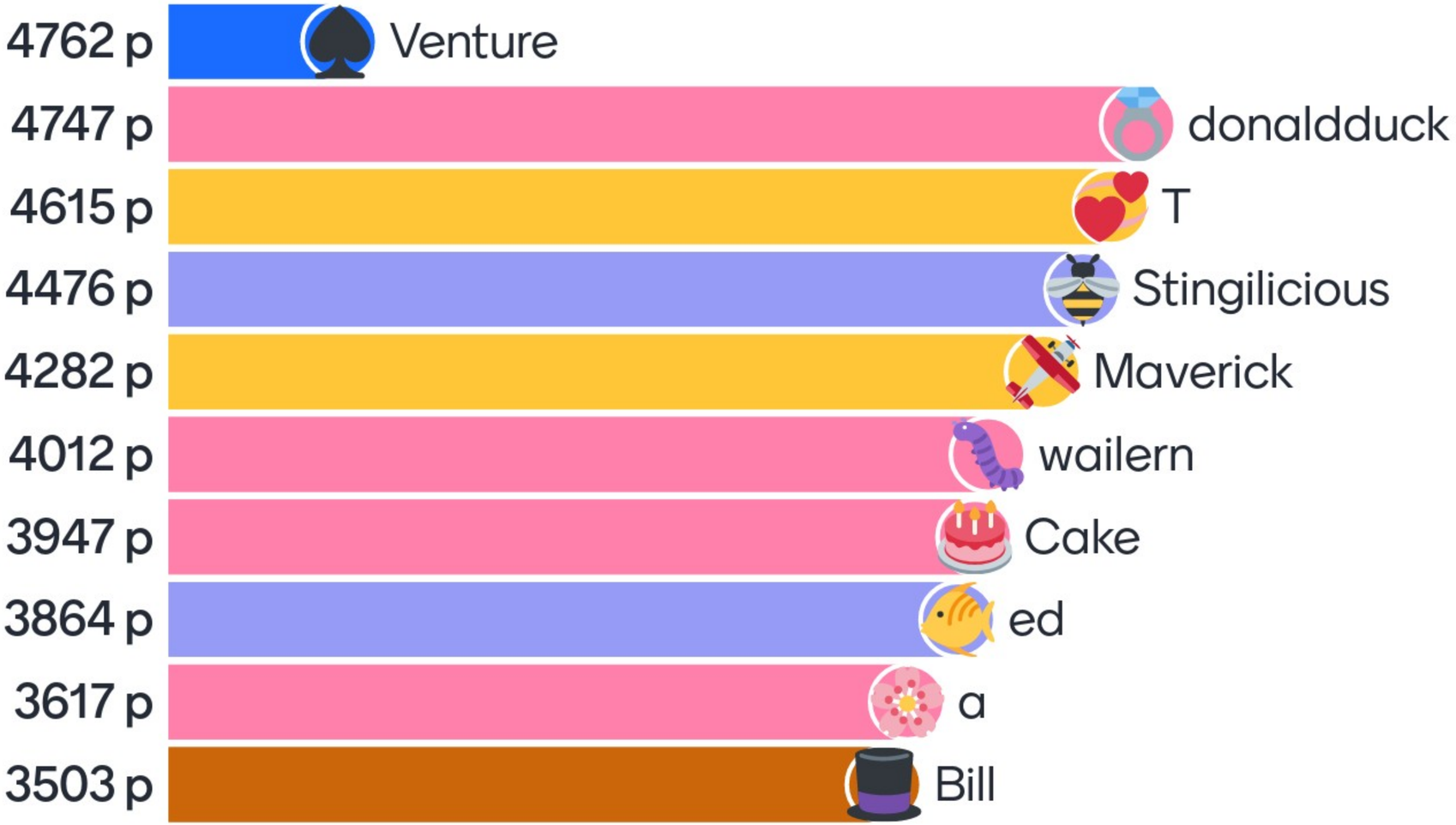

What is the F1-score?

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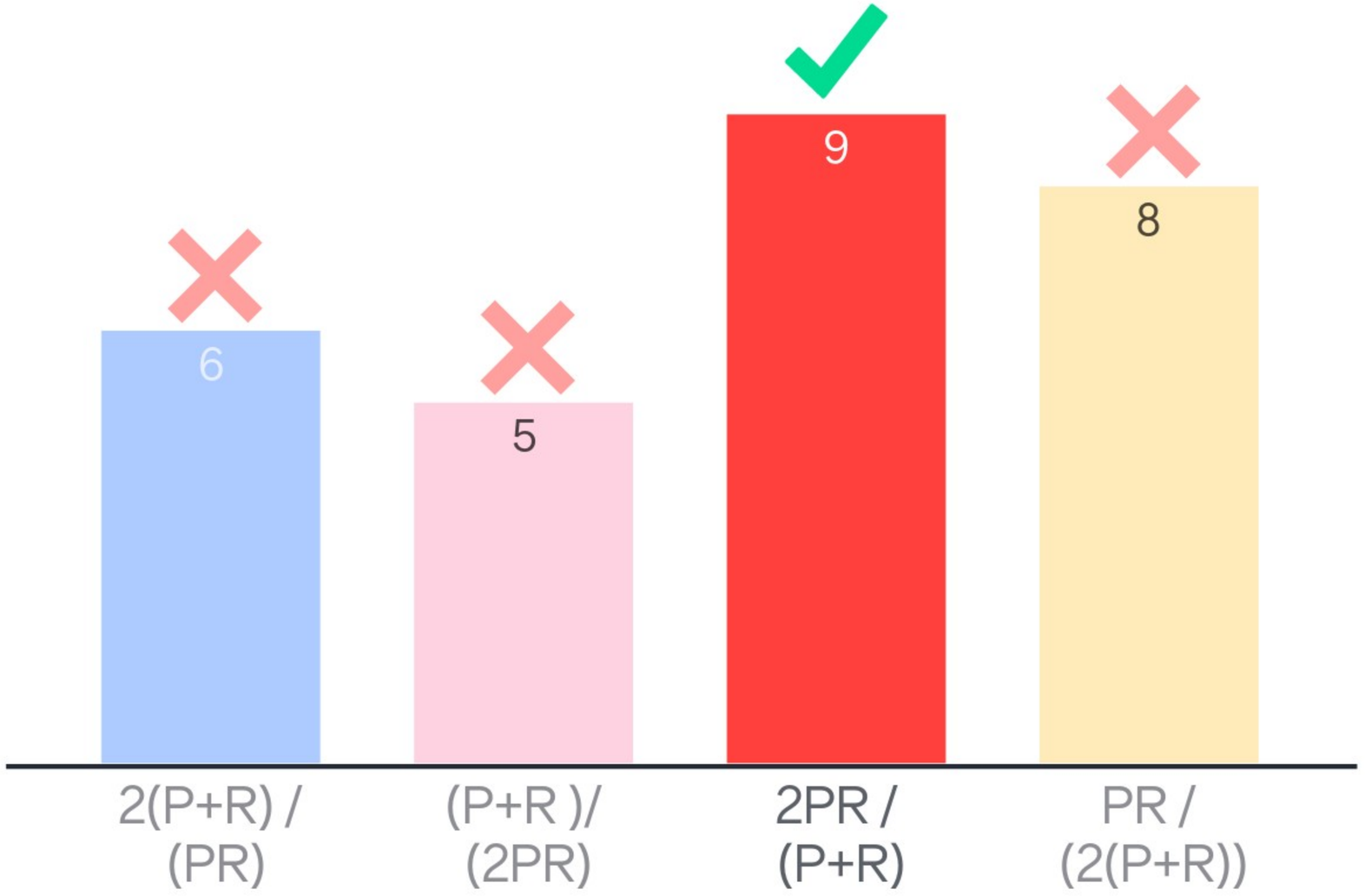

To reduce the variance for logistic regression in scikit-learn, C should be

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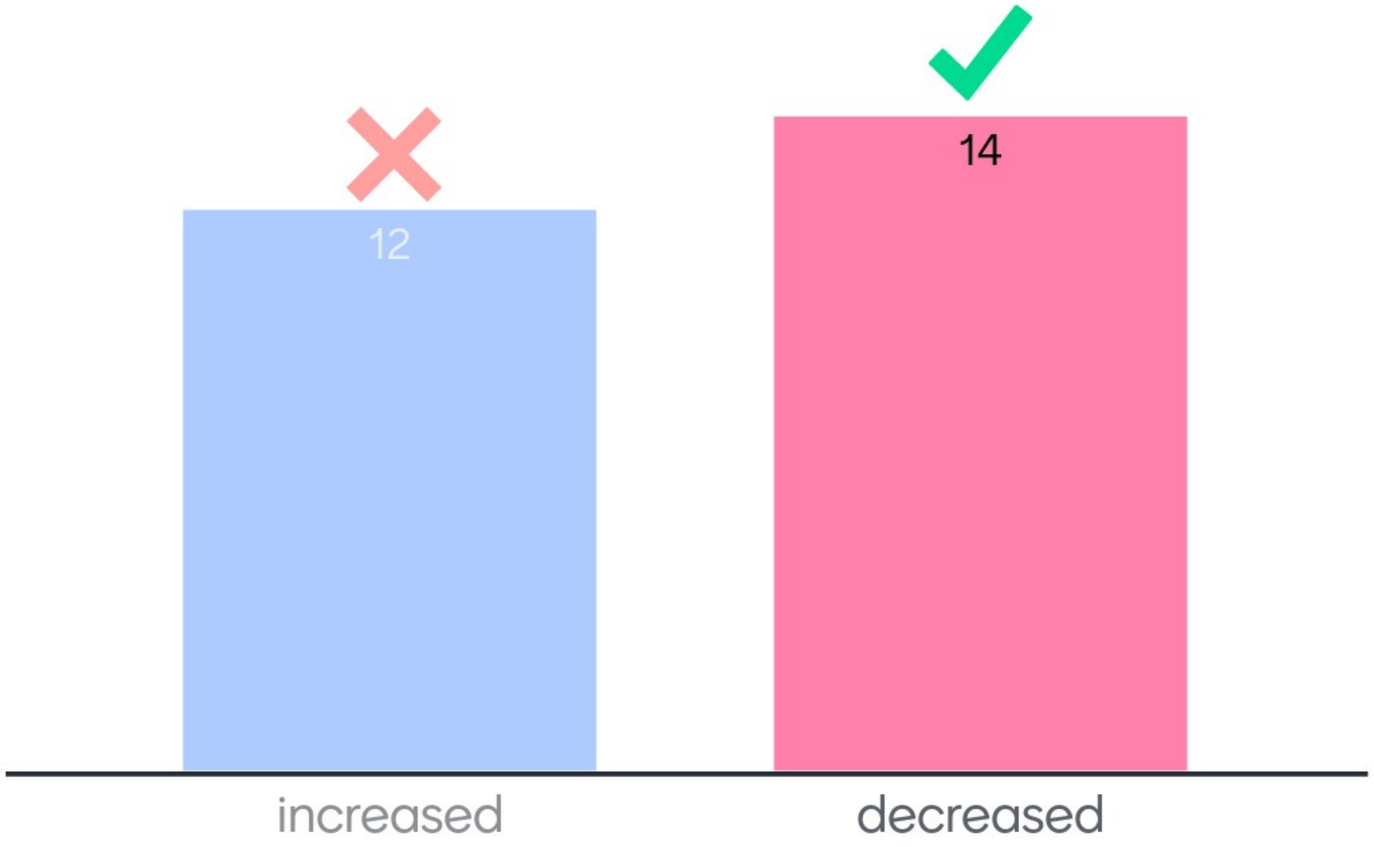

Bootstrap sampling is done

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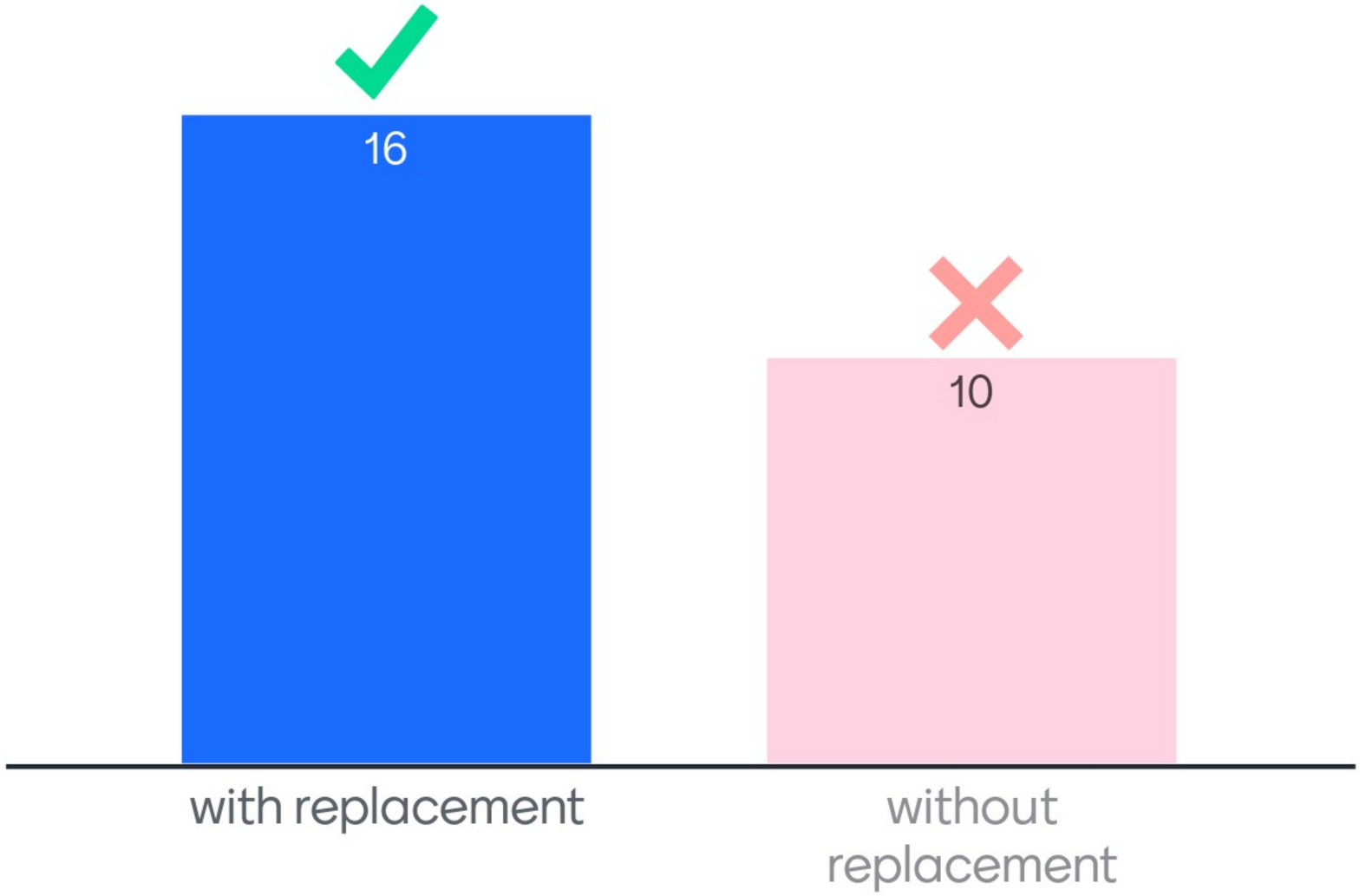

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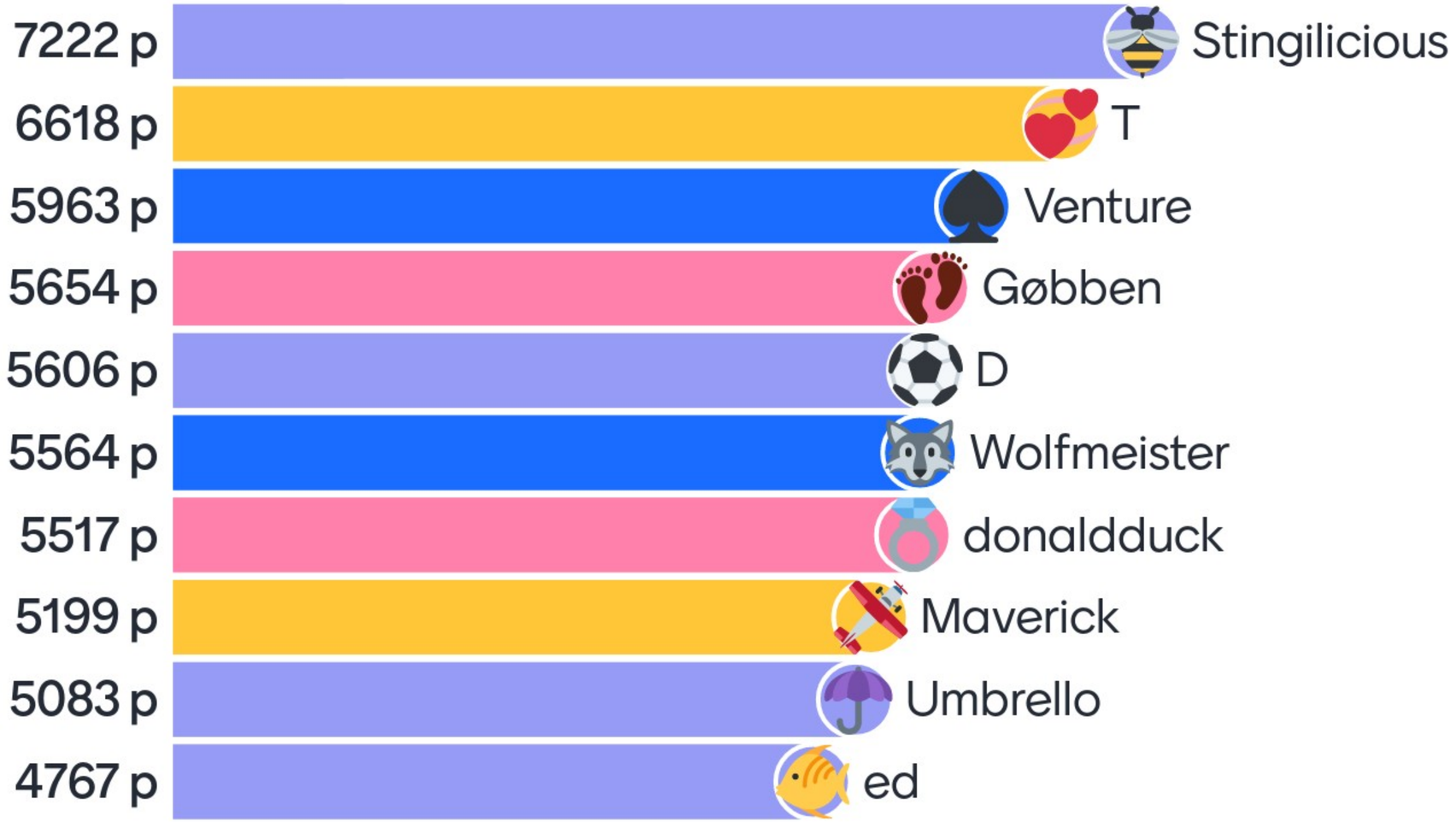

Questions?

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