# Quiz M5.03

Note: For each question **make sure you select all of the correct options—** there may be more than one! Don't forget to use the sandbox notebook if you need.

## Question 1 (1/1 point)

When fitting a decision tree regressor in scikit-learn, the predicted values on a leaf corresponds to:

- ○ a) the median of the training samples at this node
- ◉ b) the mean of the training samples at this node
- ○ c) the most frequent value of the training samples at this node

*You have used 1 of 1 submissions*

## Question 2 (1/1 point)

Decision tree regressors can predict:

- ○ a) any values, including values larger or smaller than those observed in `y_train`
- ◉ b) only values in the range from `np.min(y_train)` to `np.max(y_train)`

*You have used 1 of 1 submissions*

a) a piecewise-linear function

b) a piecewise-constant function ✔

c) a piecewise-cubic function

EXPLANATION

solution: b)

When predicting with a decision tree regressor, we will predict the mean of the training samples at a leaf. This value is indeed a constant.

*You have used 1 of 1 submissions*

## YOUR EXPERIENCE

According to you, this whole 'Decision tree in regression' lesson was:

- **Too easy, I got bored**
- **Adapted to my skills**
- **Difficult but I was able to follow**
- **Too difficult**

Submit

To follow this lesson, I spent:

- **less than 30 minutes**

- ○ **2 to 4 hours**
- ○ **more than 4 hours**
- ○ **I don't know**

Submit

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