Petri Dish

Two bacteria cultures, A and B, were set up in two different dishes, each covering 50% of its dish. Over 20 days, bacteria A's percentage of coverage increased to 70% and bacteria B's percentage of coverage reduced to 40%:
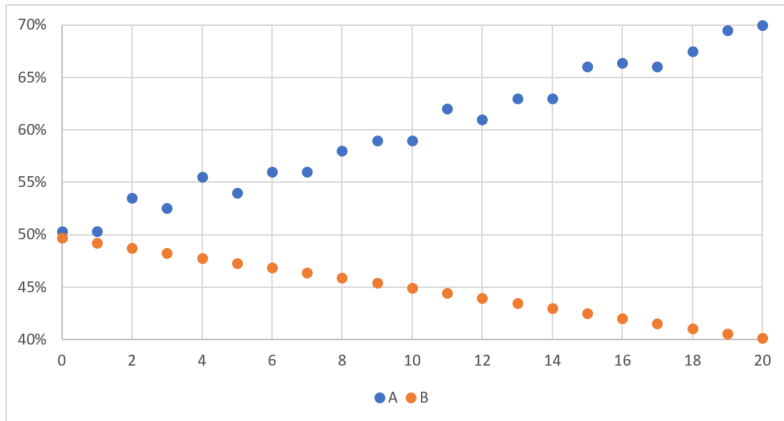
Which of the two bacterium's growth correlates more linearly with the number of days passed?

- ○ A
- ◉ B
- ○ It can not be determined.

Approximately, what is the Pearson correlation coefficient of **bacteria B**'s coverage and the number of days passed?

- ○ 1
- ○ [0.2, 0.6]
- ○ 0
- ○ [-0.6, -0.2]
- ◉ -1

If, after 20 days, **bacteria A**'s coverage starts to correlate less with its linear trend line, what can we say about the value of its Pearson correlation coefficient?

- ○ It will stay the same.
- ◉ It will decrease.
- ○ It will increase.
- ○ It can not be determined.

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Your score is 100%, perfect!

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Tags

| GENERAL DATA SCIENCE | () | CORRELATION | () | PUBLIC | () | NEW | ()

Difficulty: Easy

Duration: 5min

Author: Josip Kremenić ⧉

Score Distribution

of candidates

0-33%   34-66%   67-100%

Score
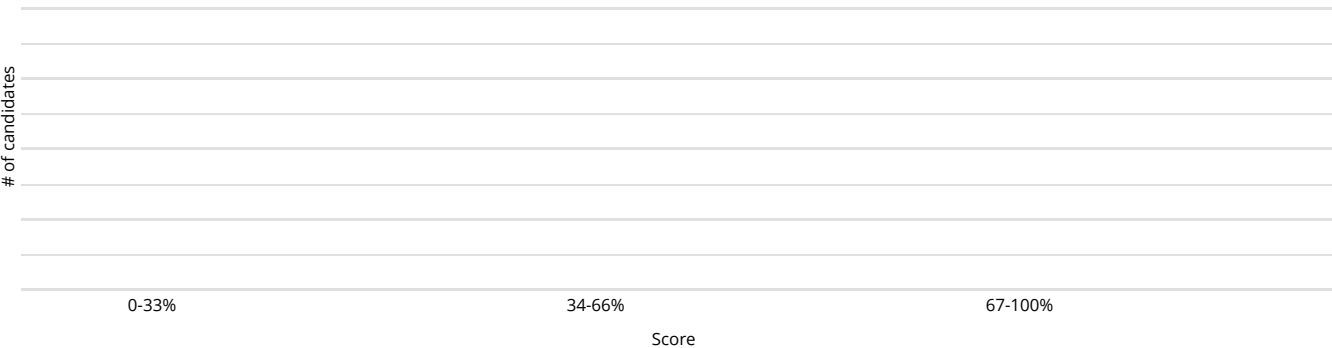
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