Recursion basics → The factorial

📊 Medium   🕐 1 minute   ❓

You are trying to explain recursion to your friend and tell them about a factorial of a positive integer. You are writing the following:

factorial (X) :

- If *X* is 0, factorial is 1.
- If *X* is not 1, see: $factorial(X-1) * X.$

Is the algorithm correct?

📄 Report a typo

↳ Select one option from the list

⭕ No, it won't work. We need to change "factorial(X –1) * X" to "factorial(X – 1) + X"

⭕ Yes, it is correct, but it will be more efficient if we change "If X is 0" to "If X is 1"

⭕ Yes, it is correct

⭕ No, it won't work. The case when X = 1 is not defined

✓ Correct.

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