Question 1

1 point possible (graded)

Consider the following meteorological model:

- If the weather is bad at day n, then it remains bad at day $n+1$ with probability 0.5;
- If the weather is beautiful at day n, then it remains beautiful at day $n+1$ with probability 0.8 if it was beautiful at day $n-1$;
- If the weather is beautiful at day n, then it remains beautiful at day $n+1$ with probability 0.3 if it was bad at day $n-1$.

Let us denote by $X(n)$the weather at day n. $X(n)$ takes values in $\{Be; Ba\}$ (for "Beautiful" or "Bad"). Is $X(n)$ a Markov chain?

- Yes
- No

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You have used 0 of 2 attempts