Quiz 2 Submission

A score of 3/4 or 4/4 is required to be considered to have "passed" a quiz. Please do not resubmit a quiz if you obtain a score of 3/4. You don't receive a final grade at the end of the course, so it will have no bearing on your certificate!

Your quiz will be graded and returned to you within a few minutes in most cases. However, it may take up to three weeks for your work to appear in your Gradebook. Do be patient, please!

Quizzes (which are submitted via Google Forms and not submit50) may not show up as submitted in your Gradebook until the scores have been imported, and even then will only show up if you have received a passing score.

Remember, you are limited to a maximum of EIGHT attempts at a quiz in a single calendar year. If you submit this assignment more than eight times, **all** of your submissions will be deleted, and you **will not be eligible to earn a certificate in CS50AI during this calendar year**. Take this assignment seriously! (Submissions from 28 December 2022 count towards 2023 eligibility.)

Attempts to circumvent this policy, if detected, will be treated as violations of the course's academic honesty policy and will result in permanent expulsion from the course.

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✓ Consider a standard 52-card deck of cards with 13 card values (Ace, King, *1/1
Queen, Jack, and 2-10) in each of the four suits (clubs, diamonds, hearts,
spades). If a card is drawn at random, what is the probability that it is a
spade or a two?

Note that "or" in this question refers to inclusive, not exclusive, or.

○ About 0.019

○ About 0.077

○ About 0.17

○ About 0.25

◉ About 0.308   ✓

○ About 0.327

○ About 0.5

○ None of the above

✓ Imagine flipping two fair coins, where each coin has a Heads side and a *1/1
Tails side, with Heads coming up 50% of the time and Tails coming up
50% of the time. What is probability that after flipping those two coins,
one of them lands heads and the other lands tails?
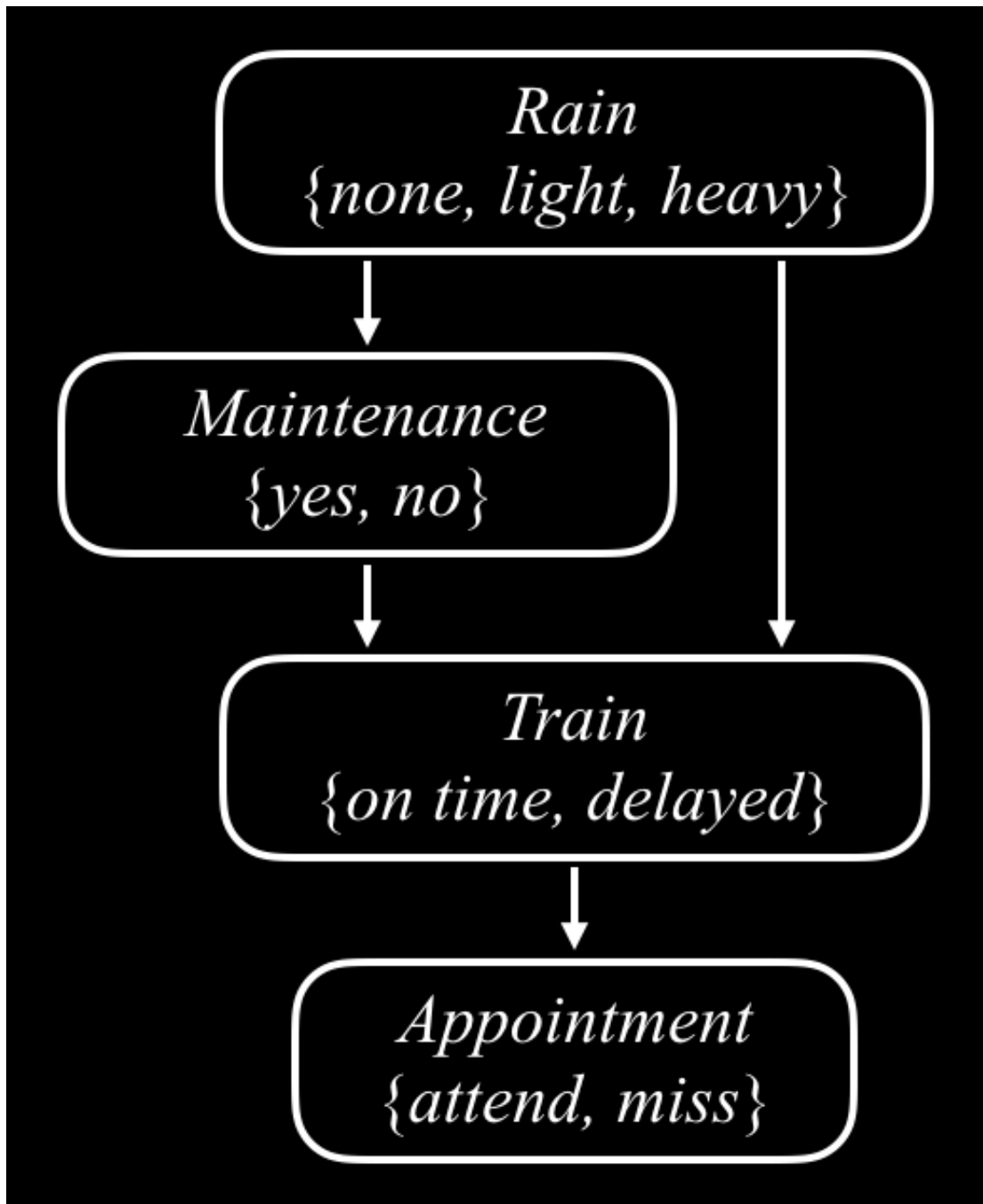
○ 0

○ 0.125

○ 0.25

○ 0.375

⦿ 0.5 ✓

○ 0.625

○ 0.75

○ 0.875

○ 1

The following question will ask you about the Bayesian Network shown in lecture, reproduced below.

○ Assuming we know there is track maintenance, whether or not there is rain does not affect the probability that the appointment is attended.

○ Assuming we know there is track maintenance, whether or not there is rain does not affect the probability that the train is on time.

◉ Assuming we know the train is on time, whether or not there is track maintenance does not affect the probability that the appointment is attended. ✓

○ Assuming we know the train is on time, whether or not there is rain affects the probability that the appointment is attended.

○ Assuming we know there is rain, whether or not there is track maintenance does not affect the probability that the train is on time.

✓ Two factories — Factory A and Factory B — design batteries to be used in *1/1 mobile phones. Factory A produces 60% of all batteries, and Factory B produces the other 40%. 2% of Factory A's batteries have defects, and 4% of Factory B's batteries have defects. What is the probability that a battery is both made by Factory A and defective?

- ○ 0.008
- ◉ 0.012 ✓
- ○ 0.024
- ○ 0.028
- ○ 0.02
- ○ 0.06
- ○ 0.12
- ○ 0.2
- ○ 0.429
- ○ 0.6
- ○ None of the above

Comments, if any