



MITx: 6.041x Introduction to Probability - The Science of Uncertainty



Bookmarks

▶ Unit 0:
Overview

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Probability
models and
axioms

**Lec. 1: Probability
models and
axioms**

Exercises 1 due Feb
10, 2016 at 23:59 UTC

**Mathematical
background: Sets;
sequences, limits,
and series;
(un)countable sets.**

Solved problems

Problem Set 1

Problem Set 1 due Feb
10, 2016 at 23:59 UTC

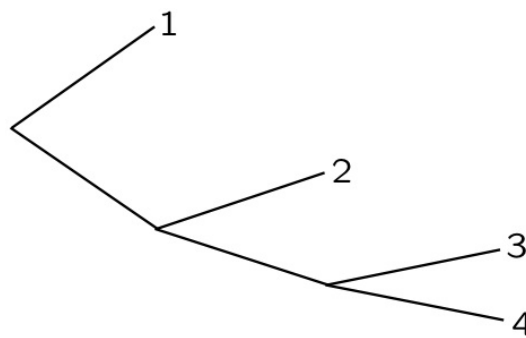
Unit 1: Probability models and axioms > Lec. 1: Probability models and axioms > Lec
1 Probability models and axioms vertical1



Bookmark

EXERCISE: TREE REPRESENTATIONS (1/1 point)

Paul checks the weather forecast. If the forecast is good, Paul will go out for a walk. If the forecast is bad, then Paul will either stay home or go out. If he goes out, he might either remember or forget his umbrella. In the tree diagram below, identify the leaf that corresponds to the event that the forecast is bad and Paul stays home.



1



2



3



4

Answer:

Under a bad forecast, there are multiple scenarios, so a bad forecast must correspond to starting along the lower branch. Furthermore, if Paul goes out, there are two further possibilities, and these must correspond to leaves 3 and 4. Therefore, the event of staying home must correspond to leaf 2.

You have used 1 of 2 submissions

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