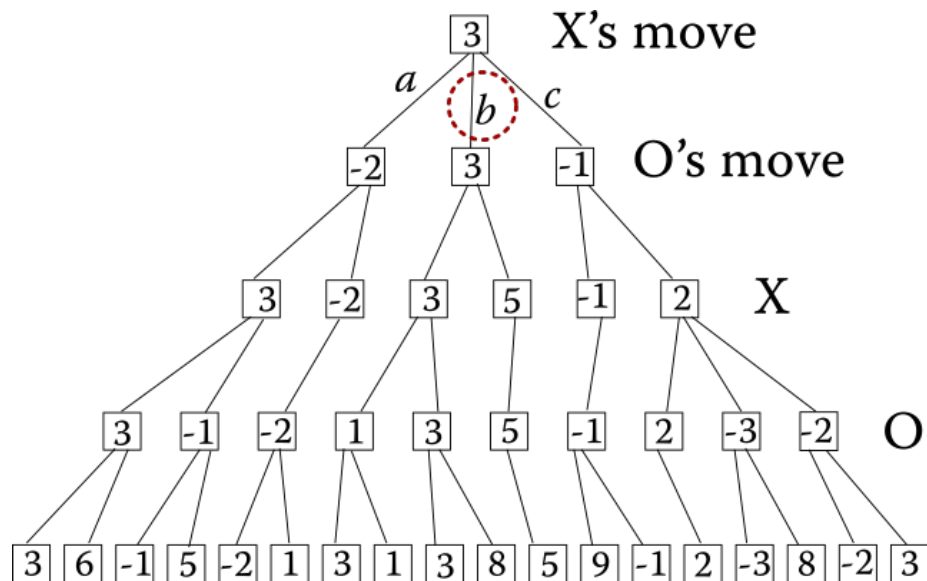


Quiz 5 Solutions

Wed Apr 19

Below is a game tree in which player X is deciding which move to make: a, b, or c.
The scores across the bottom are the relative value of that game state for player X.
Use the *minimax* algorithm to propagate the scores and **determine the best move** for player X.



The three tables below are a representation of a database for a health clinic. The last table, 'Appointment', contains foreign keys referencing the Physician and Patient tables. Examine the tables and answer the questions below.

Physician

ID*	First	Last	Specialty
1	Arthur	Asmun	general
2	Bernice	Brun	cardiology
3	Caitlin	Corvall	allergy
4	Doug	Drummond	general
5	Edward	Ebaugh	endocrinology

Patient

ID*	First	Last	Birthdate	Phone
1	Felipe	Fordham	1979-06-28	718 555 1234
2	Giada	Gordita	1997-10-27	212 555 1235
3	Harry	Howser	1994-07-30	614 555 1236
4	Inigo	Innis	1973-09-02	201 555 1237
5	Jana	Janoski	1984-08-25	212 555 1238
6	Katie	Kolata	1978-02-18	718 555 1239
7	Liam	Lin	1994-06-11	NULL

Appointment – first two columns are foreign keys

PatientID↑ (ref. Patient)	PhysicianID↑ (ref. Physician)	Date	Time
1	3	2017-05-15	10:30
1	4	2017-05-18	15:30
2	2	2017-05-11	11:15
3	5	2017-05-15	14:00
4	1	2017-05-16	10:00
4	2	2017-05-15	10:00
5	5	2017-05-15	10:30
6	4	2017-05-18	15:30
7	4	2017-05-07	16:15

- Who is the youngest patient in the database? #2 Gordita
- Name all the physicians that Jana Janoski is seeing? #5 Ebaugh
- On what date(s) and time(s) does Felipe Fordham have an appointment?
May 15 at 10:30am and May 18 at 3:30pm
- Name any physicians or patients that have scheduling conflicts (two appointments for the same person at the same time).
Physician #4 Drummond has a conflict on May 18 at 3:30pm
- A new patient, Liam Lin (born June 11th, 1994), just made an appointment with Dr. Doug Drummond on May 7th at 4:15 PM. Add that information to the appropriate tables above.