Elijah Andrushenko

CPTS 440

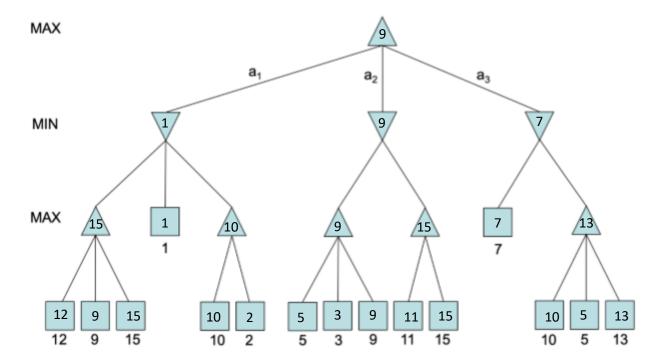
Artificial Intelligence

09-19-2019

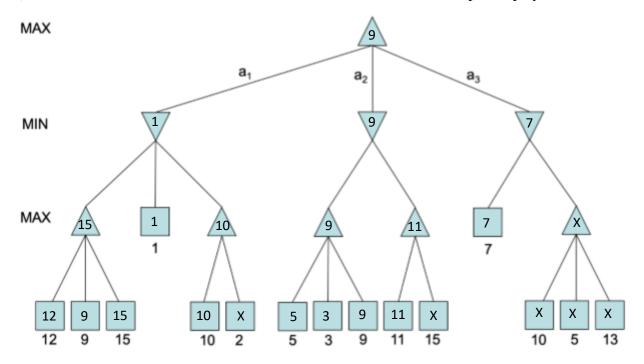
Homework 4

1.

A) MAX will choose a2 since that will return the maximal result in optimal play.



B) MAX should choose a2 since that will return the maximal result in optimal play.



2.

A)

R1: Like(Checkers) \Rightarrow Like(Chess)

R2: Like(Computers) \Rightarrow Like(Coding)

R3: (Like(Chess) L Like(Coding)) \Rightarrow Learn(AI)

R4: Learn(AI) \Rightarrow (Rich ^ Famous)

R5: Like(Checkers)

R6: Like(Computers)

B)

R1: ¬Like(Checkers) v Like(Chess)

R2: ¬Like(Computers) v Like(Coding)

R3: ¬Like(Chess) v ¬Like(Coding) v Learn(AI)

R4: (¬Learn(AI) v Rich) ^ (¬Learn(AI) v Famous)

R5: Like(Checkers)

R6: Like(Computers)

Step	CNF	Steps Used
1	¬Like(Checkers) v Like(Chess)	0
2	¬Like(Computers) v Like(Coding)	0
3	\neg Like(Chess) v \neg Like(Coding) v Learn(AI)	0
4	(¬Learn(AI) v Rich) ^ (¬Learn(AI) v Famous)	0
5	Like(Checkers)	0
6	Like(Computers)	0
7	¬Rich	0
8	Like(Chess)	1, 5
9	Like(Coding)	2, 6
10	Learn(AI)	3, 8, 9
11	¬Learn(AI) v Rich	4
12	Rich	10, 11
13	Proof by Refutation	7, 12