21-51-82

(a)

ci) × P

(ii) NBE

ch Bp

Solution (a)(i) 1) B finish

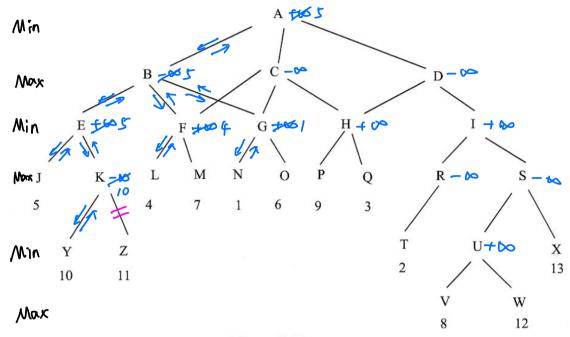
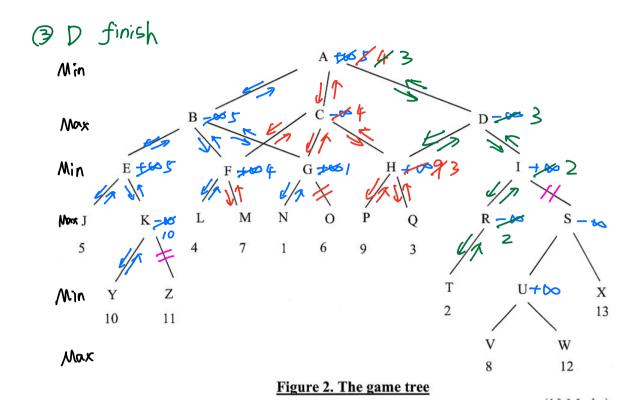


Figure 2. The game tree

2 Cfinish Min Mox Min Now J K -10 T U+∞ Z X Min 2 13 10 11 W Max 8 12 Figure 2. The game tree



cii) Z,O,S.U.X,V,W

(b) (i)
$$\bigcirc$$
 02

 $\text{net}_2 = 0.8 \times 1 + 0.3 \times [=1 \cdot 1]$
 $0_2 = -(\text{net}_2) = 1.1$

(2) 03

 $\text{net}_3 = 0.1 \times [+0.6 \times 1 = 0.7]$
 $0_3 = -(\text{net}_3) = 0.7$

(3) 04

 $\text{net}_4 = 1 \times [+0.9 \times 1.1 + 0.3 \times 0.7 + 0.2 \times 1]$
 $= 2.4$
 $0_4 = -(\text{net}_4) = 2.4$

(4) 05

 $\text{net}_5 = 0.5 \times [.1 + 0.2 \times 0.7 - 0.9 \times 1]$
 $= -0.21$

(b) $0_5 = -(\text{net}_5) = 0.1 \times (-0.21) = -0.021$

(cii) $0_6 = -(\text{net}_6) \times (-0.21) = -0.021$

(ciii) $0_6 = -(\text{net}_6) \times (-0.21) \times (-0.21) = -0.021$

(ciii) $0_6 = -(\text{net}_6) \times (-0.21) \times (-0.21)$

$$S_{2} = \sigma'(net_{2}) \left(S_{4}W_{42} + S_{5}W_{52} \right)$$

$$= |x(-2.2 \times 0.9 + 0.082| \times 0.5)$$

$$= -1.93895$$

$$S_{3} = \sigma'(net_{3}) \left(S_{4}W_{43} + S_{5}W_{53} \right)$$

$$= |x(-2.2 \times 0.3 + 0.082| \times 0.2)$$

$$= -0.64358$$

$$(iV) \bigcirc \Delta W_{ji} = \int S_{j}O_{i}$$

$$\Delta W_{2i} = \int S_{2}O_{1}$$

$$= 0.5 \times (-1.93895) \times |$$

$$= -0.969475$$

$$\Delta W_{4b} = \int S_{4}O_{b}$$

$$= 0.5 \times (-2.2) \times |$$

$$= -1.1$$