Phang Teng Fore 1003296 HW4
1. a) Max 2
MIN 3 70 75 16 7
b) Starting from the bottom, the opponent will want to minimize the utility score, as such the smallest score will be close
the utility score, as such the smallest score will be close
to prevent the other player to vin, as such 3, 7,5,6
are chosen at the min level. At the max level, the
player wants to maximize his Jrance of whoming thus
player wants to maximize his hance of winning thus choosing the best possible score available which is 7.
$C)$ Q_2C_1
2. 9) dz, dz, d4, e4
1) 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
b) After explaining b and c, the current K is 7. With that
when we hit d, = 5, we can safely say that B
is < X. Thus the remaining subtree of path d can
be prine as it guarentee that no matter the minimial
value of the sub tree, it will be no bigger than X.
However for e path, e, 3 has to be traversed us the B
value is > the current 1×0 nice e_3 is seen to be e_4 , the remaining subtree (e_4) (an be prune
the remaining subtree (e4) (an be prune

3. q)
$$1.5$$

$$(2x0.5) + (1x0.5) = 1.5$$

$$(0x0.5) + (-1x0.5) = -0.5$$
b) 0