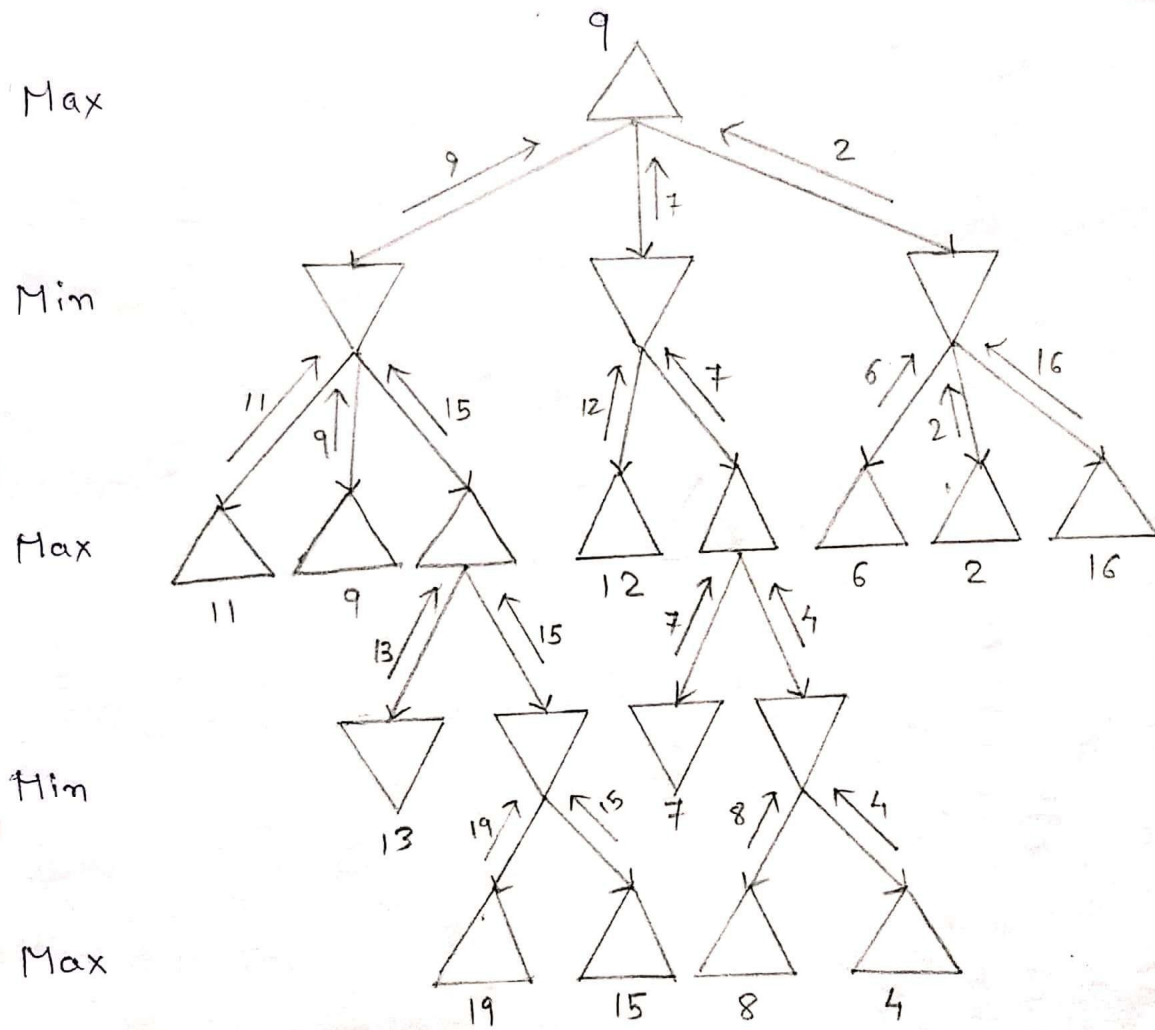


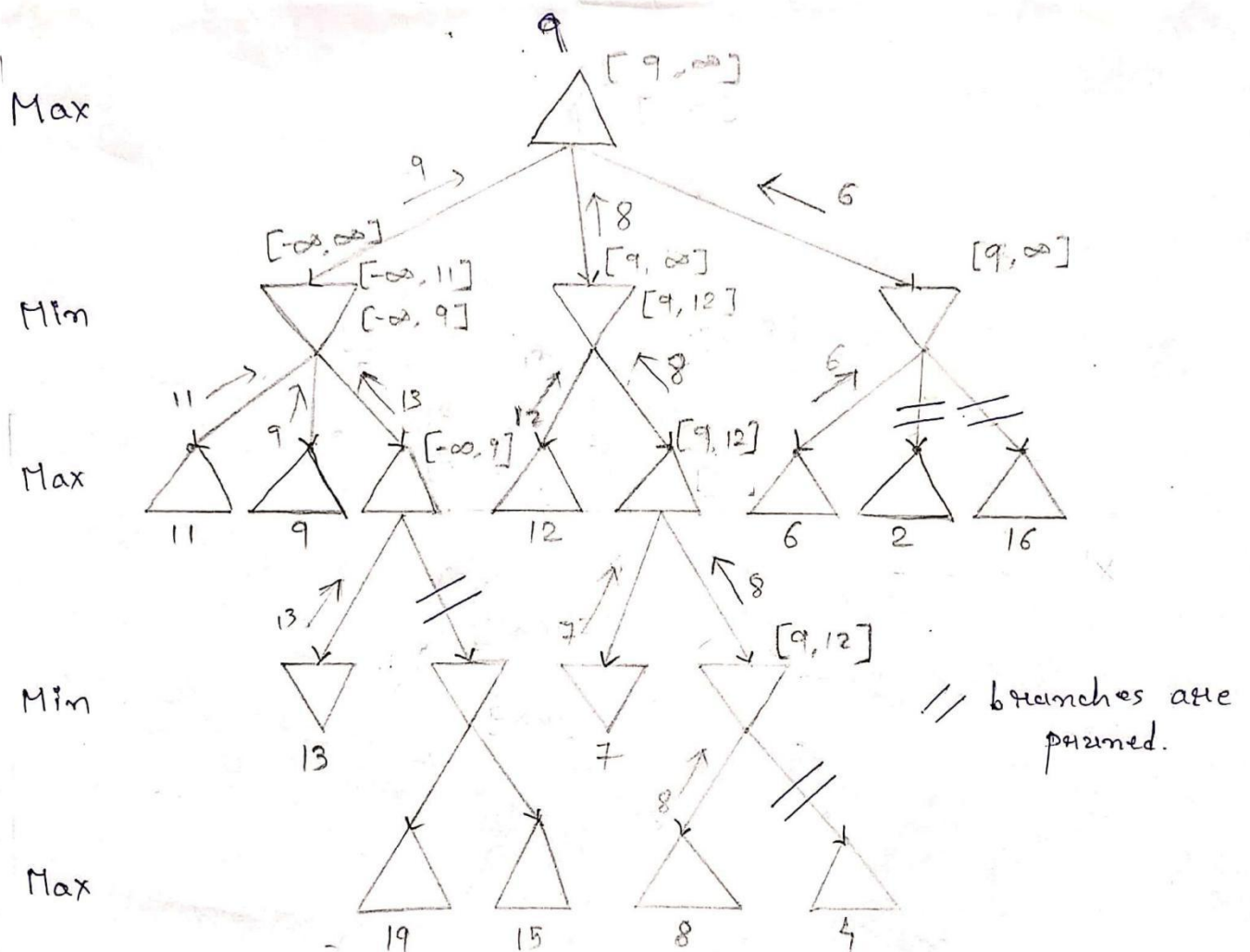
CS 480 - Introduction of Artificial Intelligence
Written Assignment 2

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(A20476293)

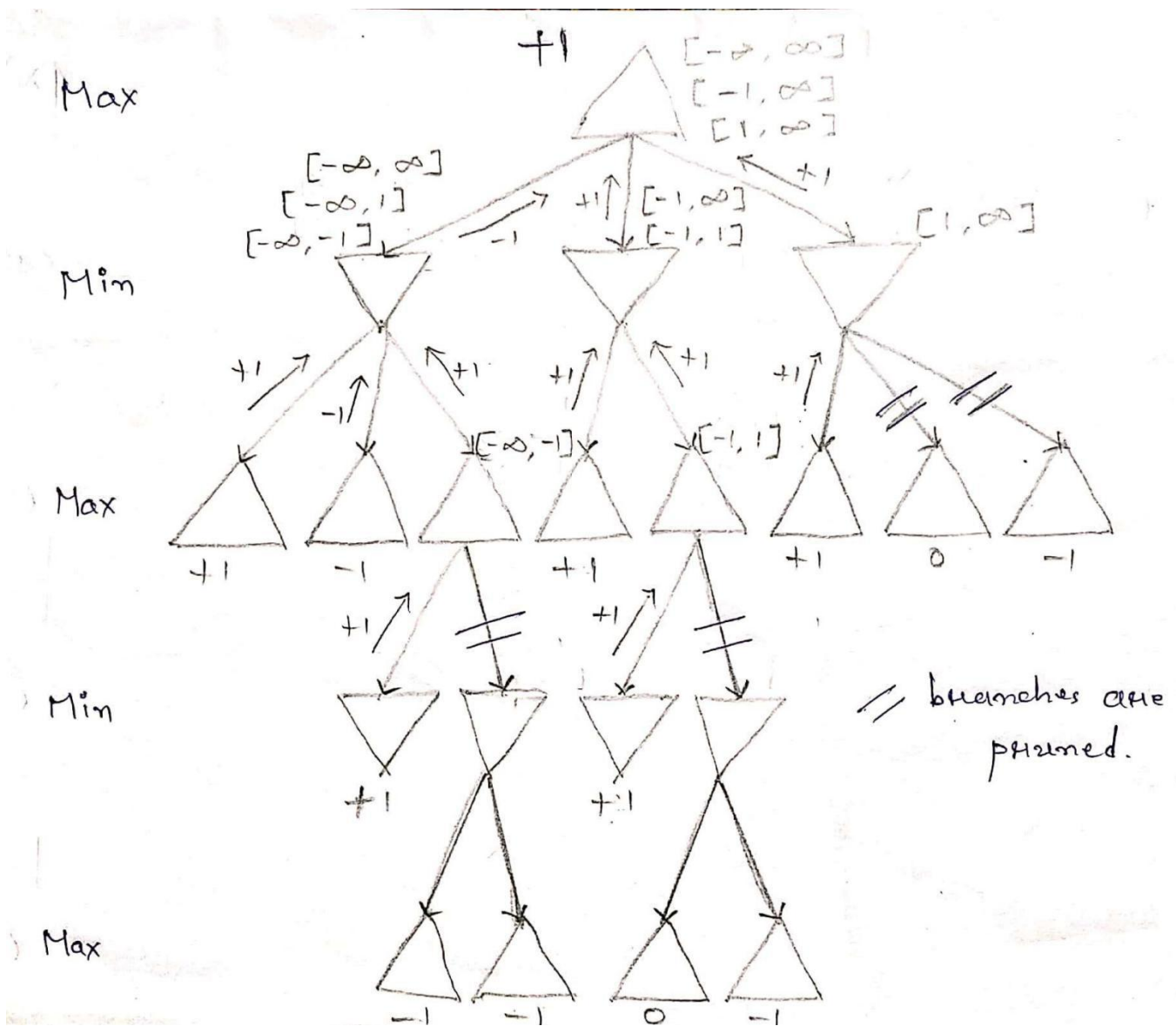
Answer - 1



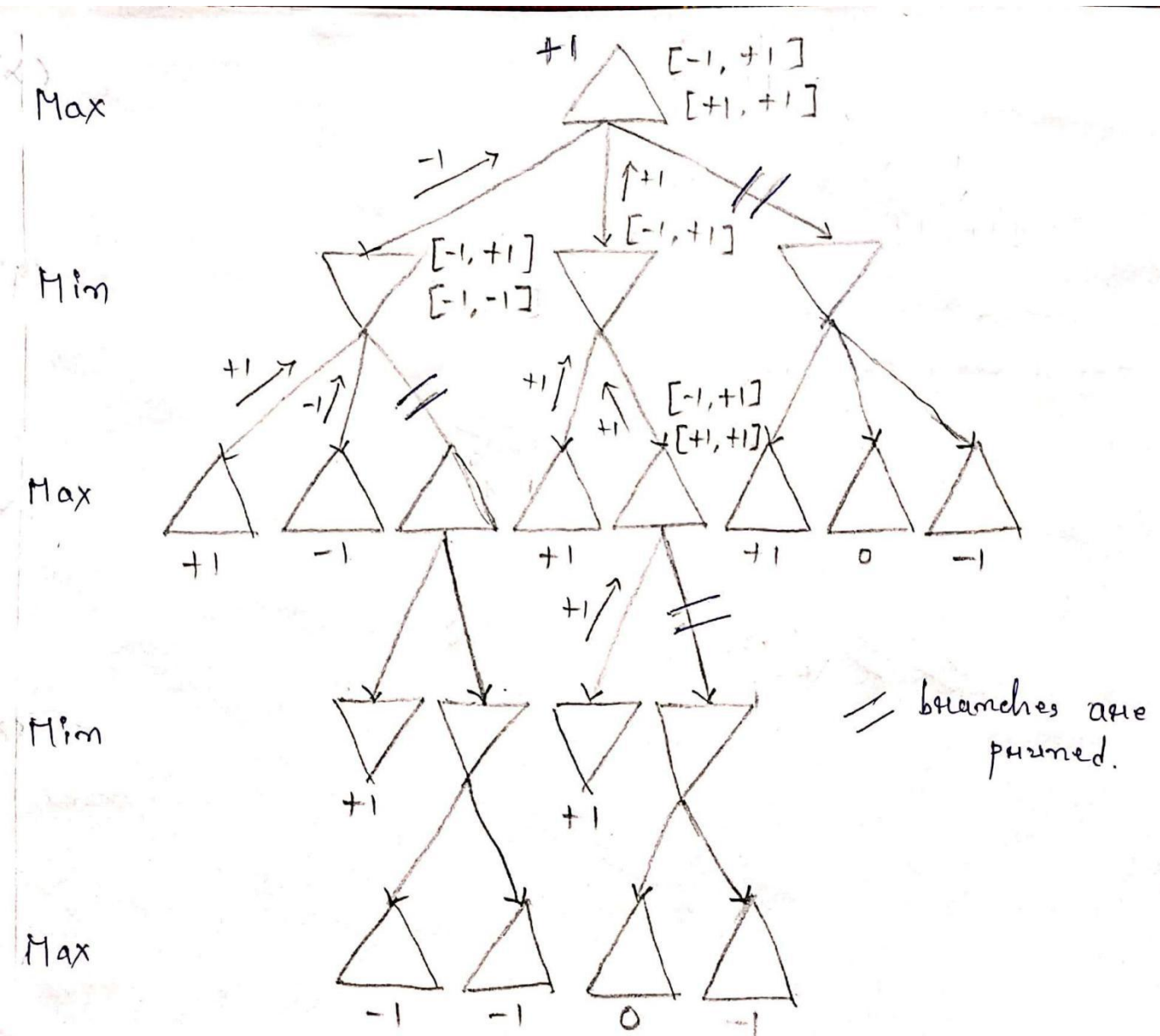
Answer - 2



Answer - 3



Answer - 4



Answer - 5

The variables and domains given -

$A : \{4, 5, 6, 7, 8\}$

$B : \{10, 20, 30, 40\}$

$C : \{2, 3, 4\}$

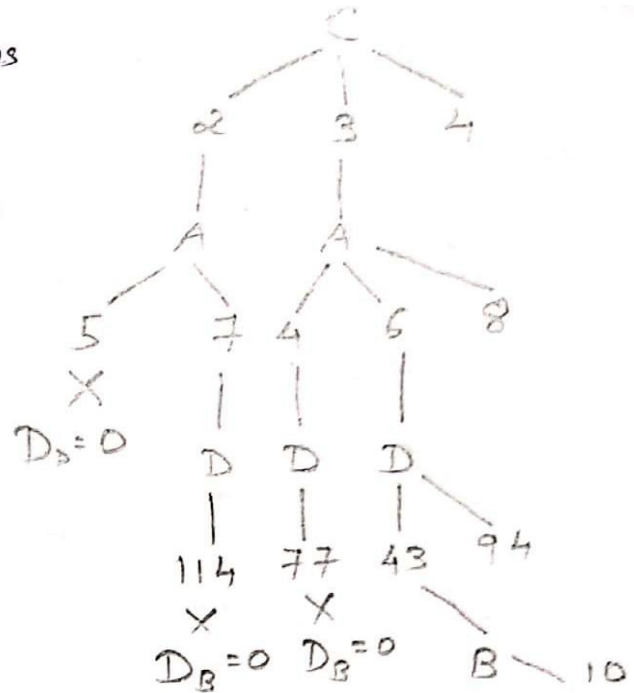
$D : \{28, 43, 56, 77, 94, 114\}$

Constraints :

$A + C$ is odd.

$A + D$ is square of an integer

$B + D < 60$



$A : \{4, 5, 6, 7\}$ $B : \{10, 20, 30, 40\}$ $C : \{2, 3, 4\}$ $D : \{28, 43, 56, 77, 94, 114\}$	$C = 2$ $\{5, 7\}$ $\{10, 20, 30, 40\}$ 2 $\{28, 43, 56, 77, 94, 114\}$	$A = 5$ 5 $\{10, 20, 30, 40\}$ 2 X	$A = 7$ 7 $\{10, 20, 30, 40\}$ 2 114
$D = 114$ $A : 7$ $B : X$ $C : 2$ $D : 114$	$C = 3$ $\{4, 6, 8\}$ $\{10, 20, 30, 40\}$ 3 $\{28, 43, 56, 77, 94, 114\}$	$A = 4$ 4 $\{10, 20, 30, 40\}$ 3 $\{77\}$	$D = 77$ 4 X 3 77
$A = 6$ 6 $\{10, 20, 30, 40\}$ 3 $\{43, 94\}$	$D = 43$ 6 $\{10\}$ 3 43	$B = 10$ 6 10 3 43	<p>Solution :-</p> $A = 6$ $B = 10$ $C = 3$ $D = 43$