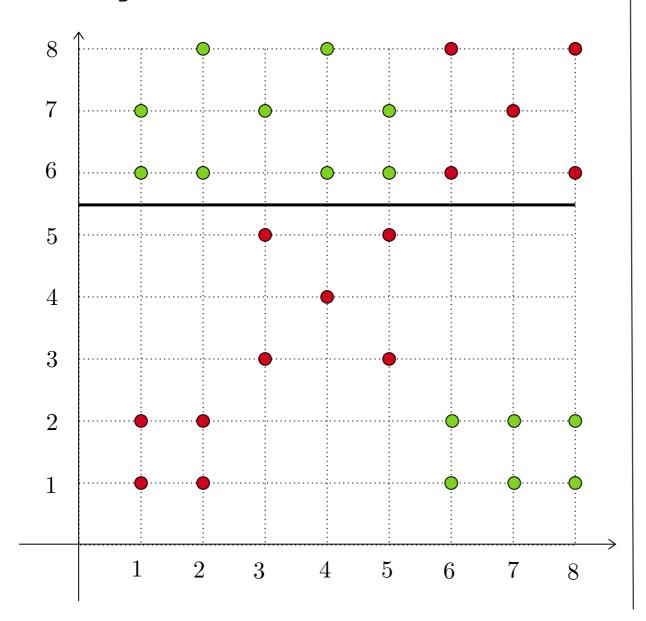
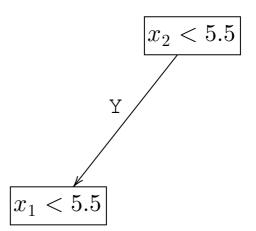
Decision Tree - Examples

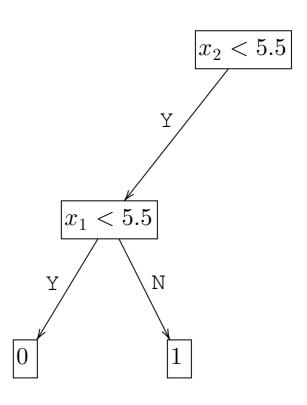
School Connect: Intro to DS & AI

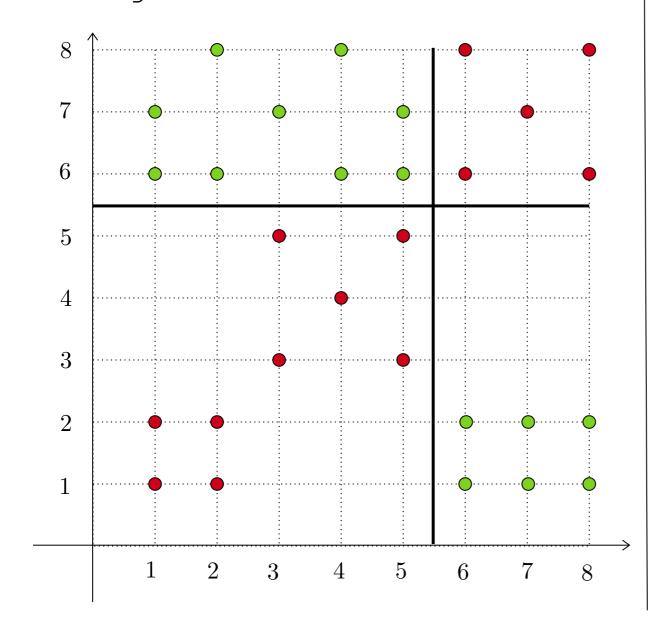
A Aniruddha Indian Institute of Technology, Madras Growing a Tree $4 \qquad 5$

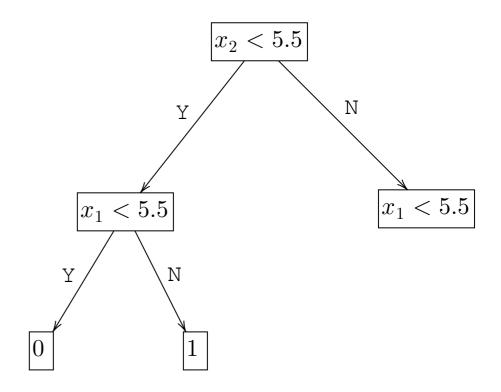


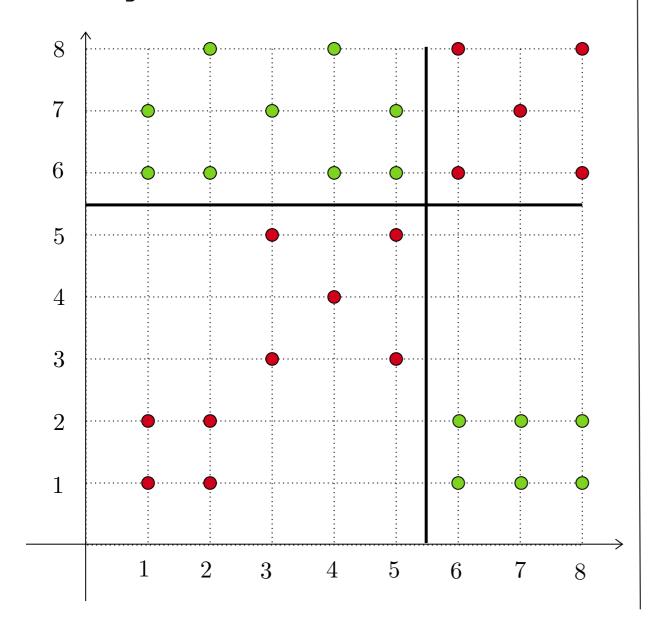
 $|x_2| < 5.5$

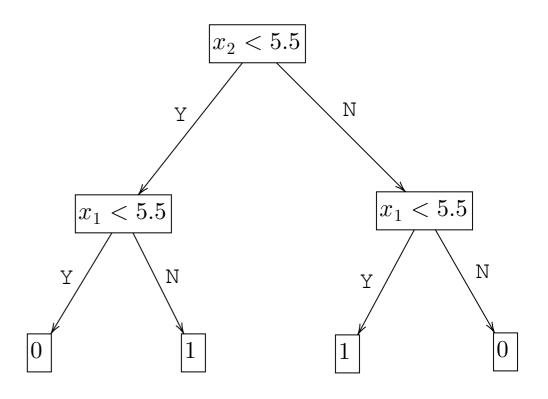




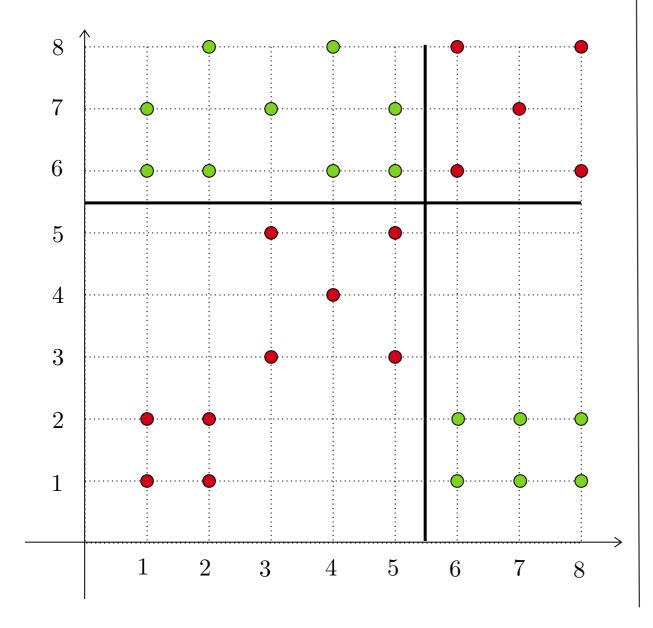


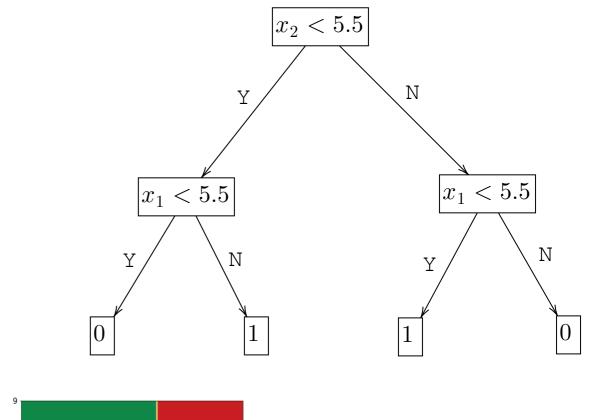


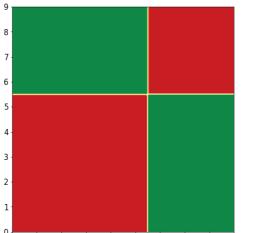




Growing a Tree $|x_2 < 5.5|$ $x_1 < 5.5$ $|x_1 < 5.5|$ 5





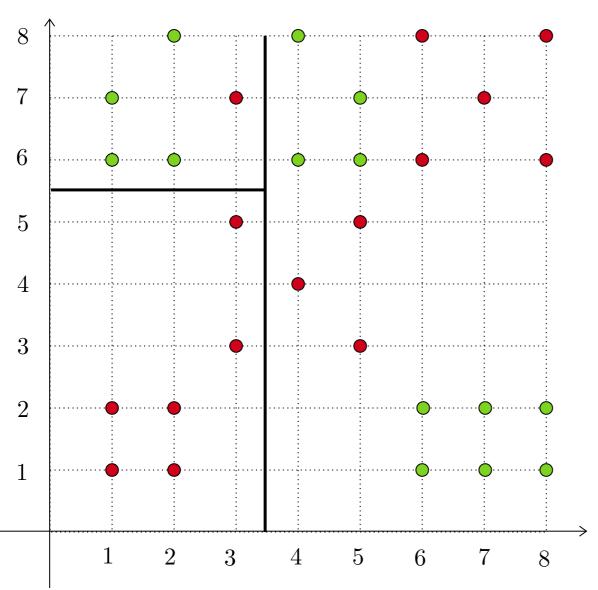


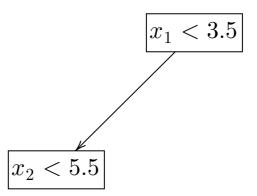
- 4 regions
- 4 leaves

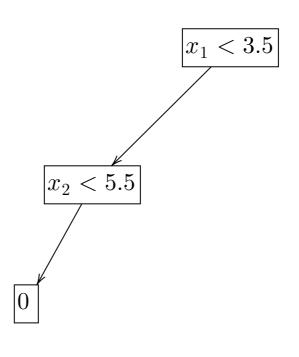
Growing a Tree $4 \qquad 5$

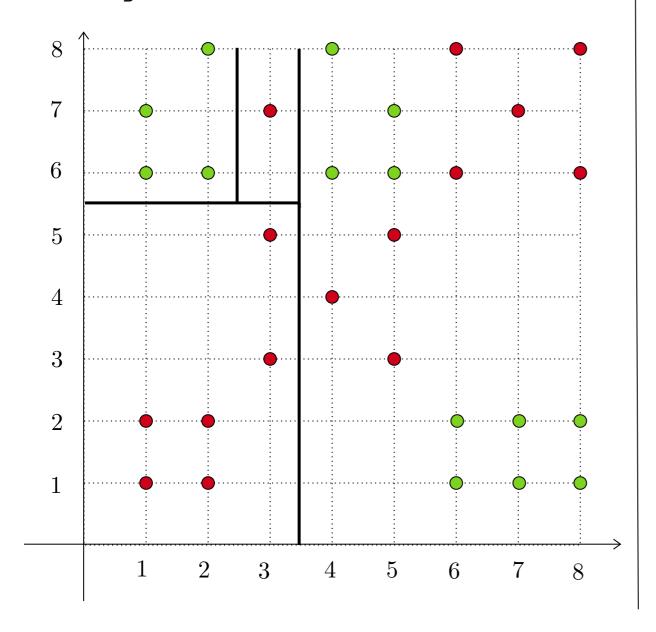
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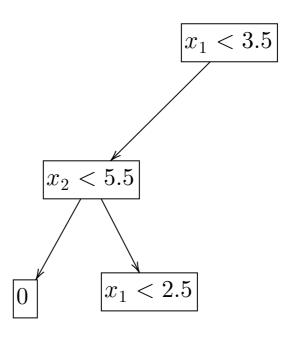
 $x_1 < 3.5$

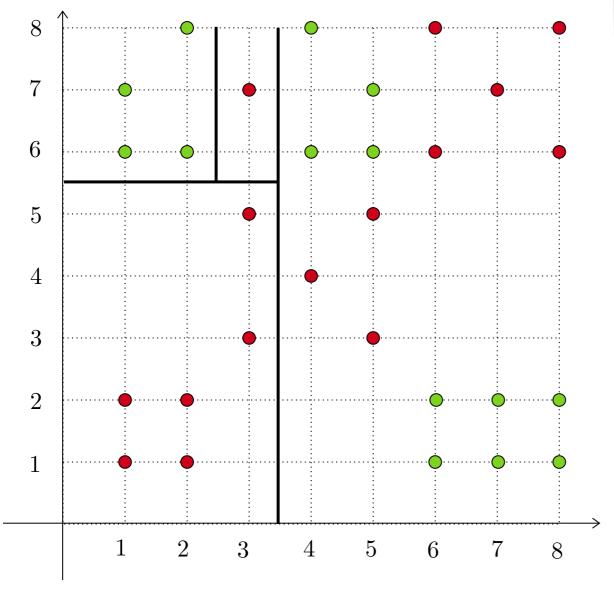


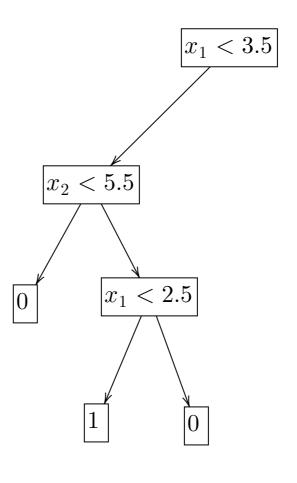


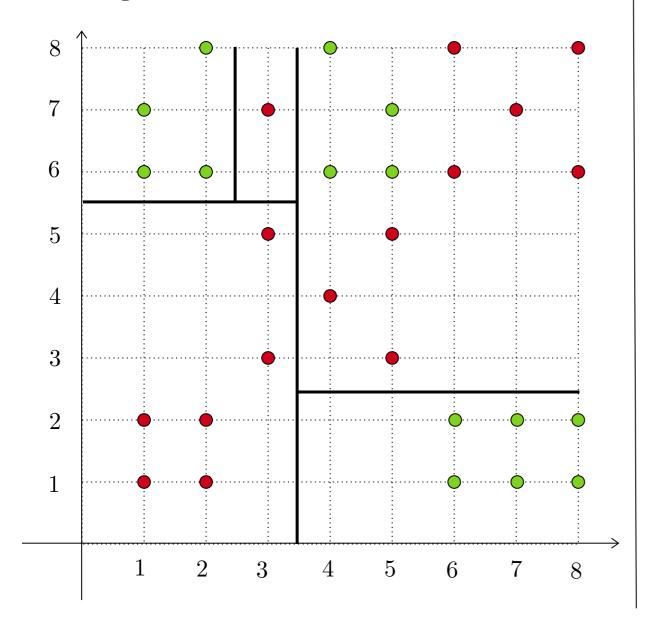


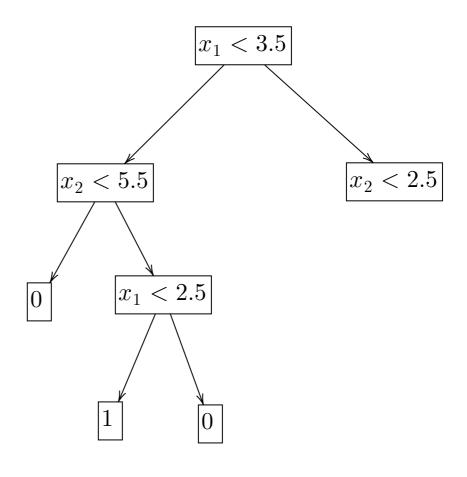


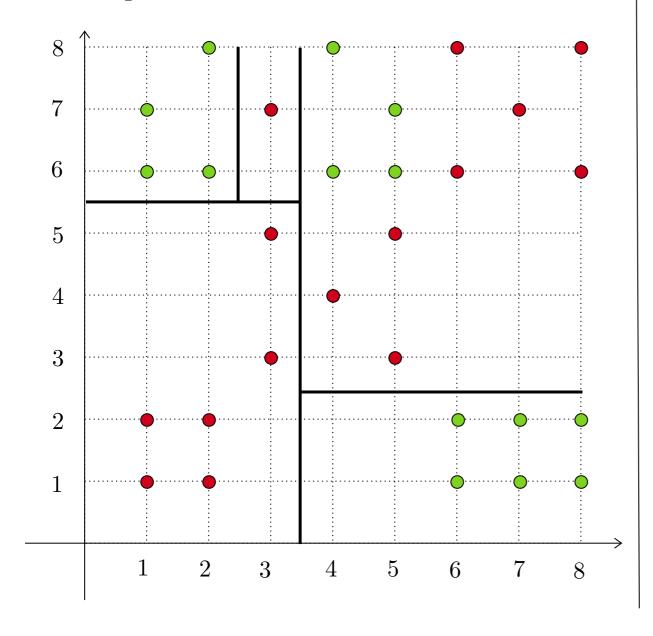


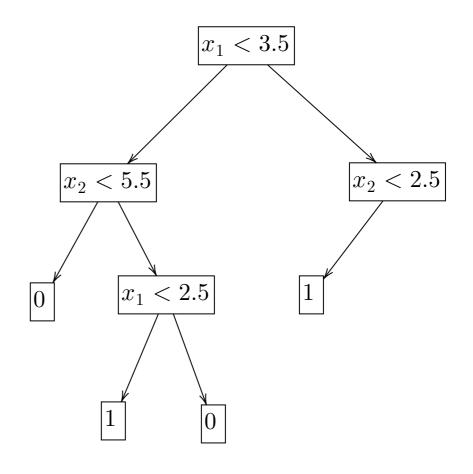


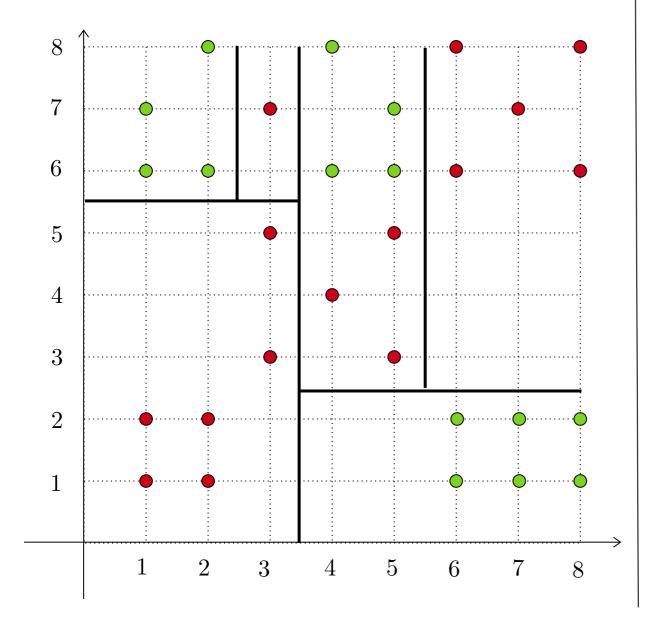


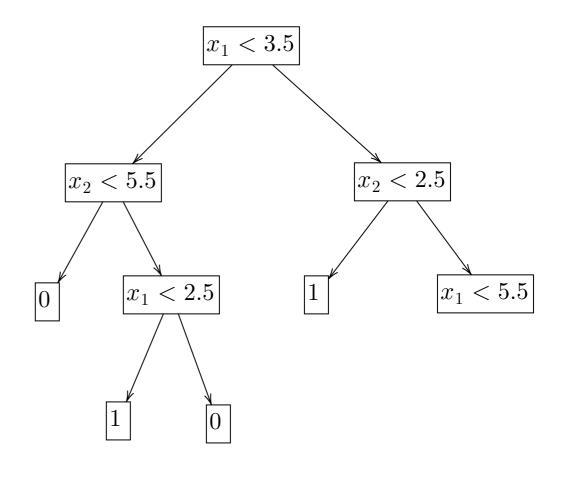


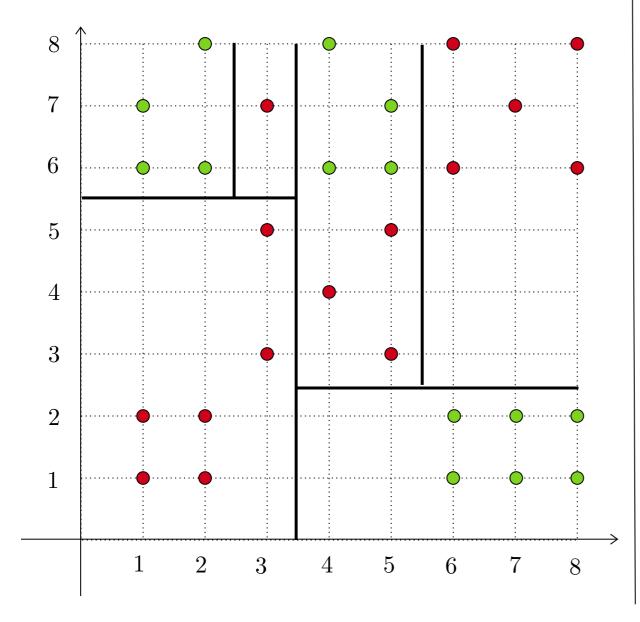


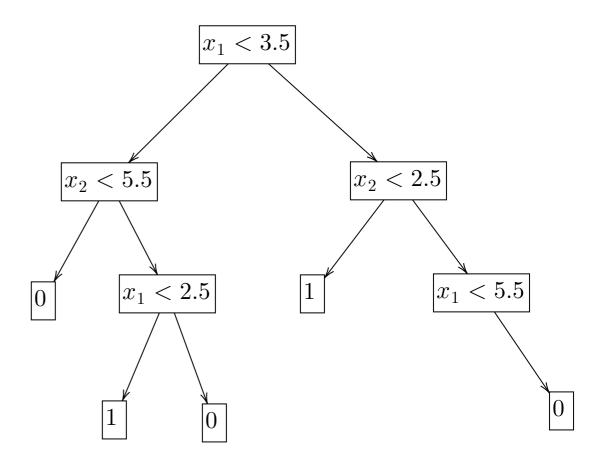


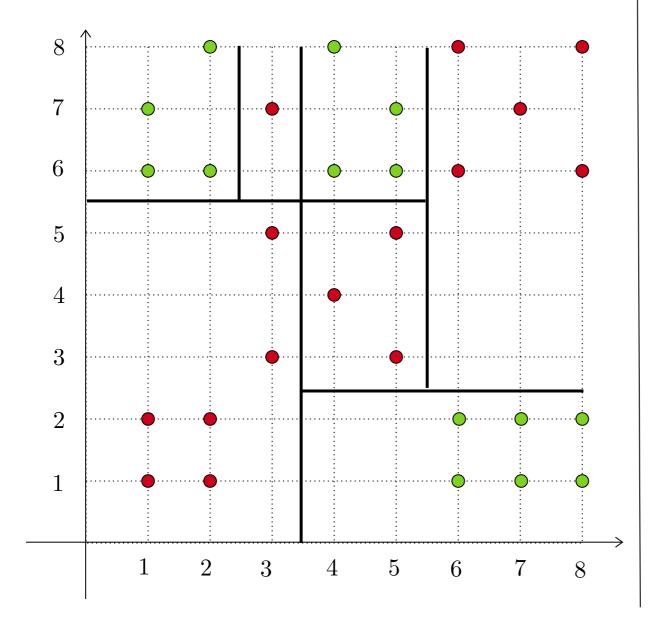


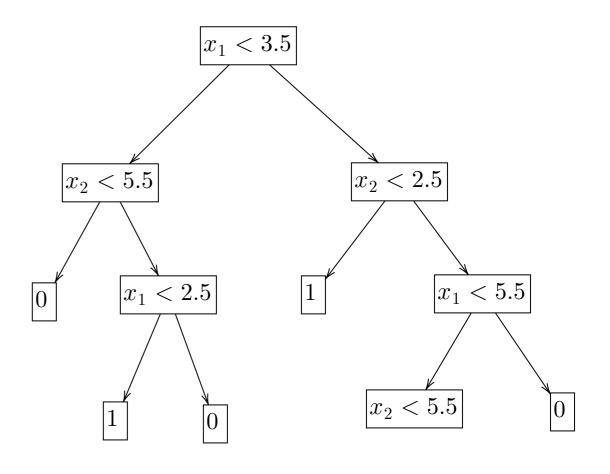




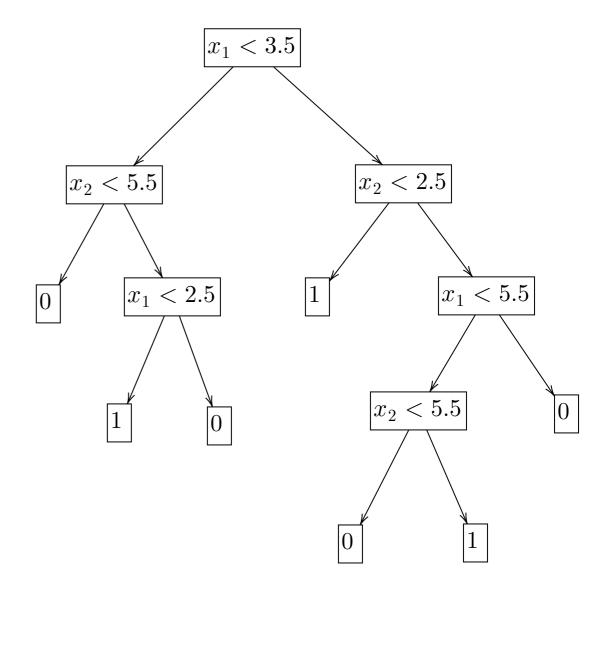






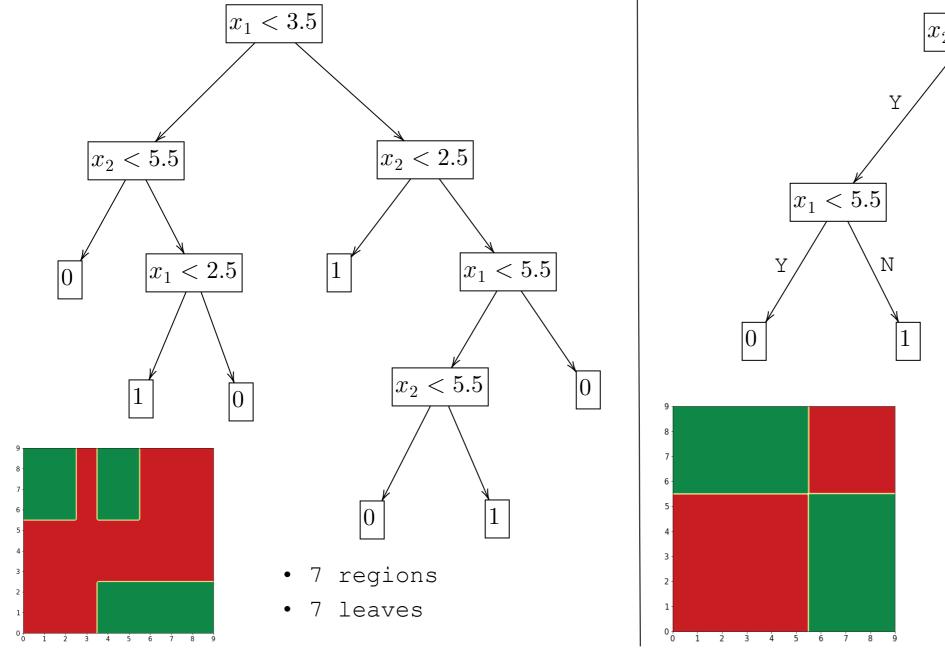


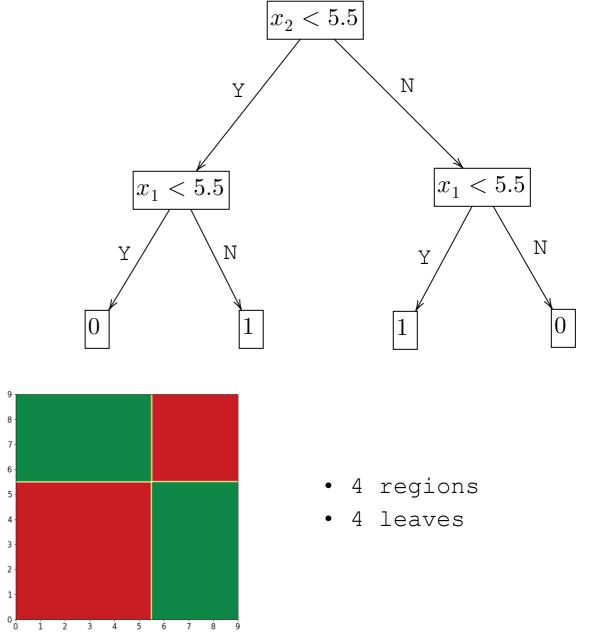
5



Growing a Tree $|x_1 < 3.5|$ $x_2 < 5.5$ $|x_2 < 2.5|$ $x_1 < 5.5$ $x_1 < \overline{2.5}$ $x_2 < 5.5$ 5

Growing a Tree $|x_1 < 3.5|$ $x_2 < 5.5$ $|x_2 < 2.5|$ $|x_1 < \overline{5.5}|$ $|x_1 < \overline{2.5}|$ $x_2 < 5.5$ 7 regions 5 leaves





Thank you