# ID3算法Matlab实现

**学习ID3算法，利用Matlab编写ID3算法程序完成下面习题**

习题：

给定如下训练集样本，类标号属性PlayTennis有两个不同值{yes，no}.根据这些样本建立ID3决策树模型.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Day | Outlook | Temperature | Humidity | Wind | Playtennis |
| 1 | Sunny | Hot | High | Weak | No |
| 2 | Sunny | Hot | High | Strong | No |
| 3 | Overcast | Hot | High | Weak | Yes |
| 4 | Rain | Mild | High | Weak | Yes |
| 5 | Rain | Cool | Normal | Weak | Yes |
| 6 | Rain | Cool | Normal | Strong | No |
| 7 | Overcast | Cool | Normal | Strong | Yes |
| 8 | Sunny | Mild | High | Weak | No |
| 9 | Sunny | Cool | Normal | Weak | Yes |
| 10 | Rain | Mild | Normal | Weak | Yes |
| 11 | Sunny | Mild | Normal | Strong | Yes |
| 12 | Overcast | Mild | High | Strong | Yes |
| 13 | Overcast | Hot | Normal | Weak | Yes |
| 14 | Rain | Mild | High | Strong | No |