

Assignment7: Learning

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Exercise 7.2 (Decision List)

Target variable V seems to be negative XOR function of C and D except example #4. Hence our goal is to exclude this example and then apply the XOR function using the available literals.

1. Assume your literals must be of the form *attribute = number*. For which k -can we give the shortest possible decision list in k -DL (i.e., using at most k literals per test)? Give the list.

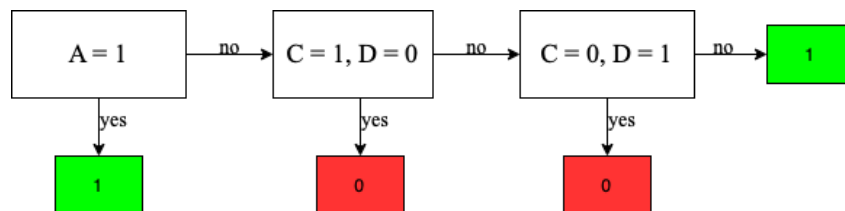


Figure 1: 2-DL, length = 3

2. Now assume your literals may also be of the form *attribute = attribute*. Answer the same question as above.

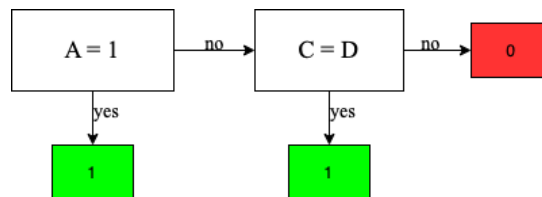


Figure 2: 1-DL, length = 2