

CSDS 440: Assignment 2

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Problem 6

In pervious question we have showed if we put all examples, each with n Boolean attributes, into a table, such table will have 2^n rows.

Known that we may assign two possible class labels (1 or 0) for each example, and there are 2^n examples waiting for assignment. The question is equivalent to asking how many ways shall we fill a 2^n place array with 1s and 0s, and the answer would be 2^{2^n} .