COMPSCI 690T Coding Theory and Applications	May 1, 2017

Lecture 24

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1 Solution to the Group Testing Problem from Assignment 3

Suppose among n elements t defectives are present. You want to output, via nonadaptive group testing, a set of t element that contains at least $1 - \epsilon$ proportion of the t defective items. How many tests would you need? Prove your answer. (Hint: Use a randomly chosen matrix).

Solution:

2 Second Topic