ON THE MINIMUM NUMBER OF QUESTIONS IN SEARCHING WITH 1 LIE AND DELAY IN ANSWERS

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We consider the problem of searching with lies when a questioner receives the answers with a fixed delay, equivalent to the problem of data transmission over a binary channel with feedback when there is a delay in the feedback link. The general necessary and sufficient conditions for the minimum number of questions in searching with 1 lie and arbitrary delay in the answers that can be easily checked when the delay is equal to 1 are presented.