TIFR CSE 2011 | Part B | Question: 31

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- Given a set of $n=2^k$ distinct numbers, we would like to determine the smallest and the second smallest using comparisons. Which of the following statements is TRUE?
- 49 A. Both these elements can be determined using 2k comparisons.
- B. Both these elements can be determined using n-2 comparisons. C. Both these elements can be determined using n+k-2 comparisons. D. 2n-3 comparisons are necessary to determine these two elements.
 - ${\sf E.}\ nk$ comparisons are necessary to determine these two elements.

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