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The classical Lusternik-Schnirelman-Borsuk (LSB) theorem states that if a  $d$ -sphere is covered by  $d + 1$  closed sets, then at least one of the sets must contain a pair of antipodal points. In this paper, we prove a combinatorial version of this theorem for hypercubes. While the LSB theorem applies to cover sets of codimension one, we consider cover sets of codimension two. For each hypercube, we find minimum-dimensional faces of which at least one cover set must contain an antipodal pair. We then show that for all dimensions except five, this minimum is sharp. The sharpness of our minimal result on the 5-cube remains open. (Received July 26, 2007)