1047-20-429 **Zoran Sunic\*** (sunic@math.tamu.edu). Frobenius Problem and dead ends in integers. Let a and b be positive, relatively prime integers. We show that the following are equivalent: (i) d is a dead end in the (symmetric) Cayley graph of Z with respect to a and b, (ii) d is a Frobenius value with respect to a and b (it cannot be written as a non-negative or non-positive integer linear combination of a and b), and d is maximal (in the Cayley graph) with respect to this property. In addition, for given integers a and b, we explicitly describe all such elements in Z. We show that every finitely generated group has a generating set with respect to which dead ends exist. (Received February 03, 2009)