## 461. Hamming Distance



砂 Description (?tab=Description) Submission (?tab=Submission) Solutions (?tab=Solutions) Total Accepted: 32373 Total Submissions: 45614 Difficulty: Easy Contributors: Samuri (/samuri/) The Hamming distance (https://en.wikipedia.org/wiki/Hamming\_distance) between two integers is the number of positions at which the corresponding bits are different. Given two integers  $\, x \,$  and  $\, y \,$ , calculate the Hamming distance. Note:  $0 \leq \ x \ , \ y \ < 2^{31}.$ Example: Input: x = 1, y = 4Output: 2 **Explanation:** (0 0 0 1) 1 (0 1 0 0) The above arrows point to positions where the corresponding bits are different. Hide Company Tags Facebook (/company/facebook/) Hide Tags Bit Manipulation (/tag/bit-manipulation/) Hide Similar Problems (E) Number of 1 Bits (/problems/number-of-1-bits/) (M) Total Hamming Distance (/problems/total-hamming-distance/) Discuss (https://discuss.leetcode.com/category/590) ★ Pick One (/problems/random-one-question/) Editorial Solution C C++ </> class Solution { public: int hammingDistance(int x, int y) { 4 // int xorVal = x ^ y; 5 // int res = 0; // for(int i = 0; i < 32; ++i) { 6 7 // res += xorVal >> i & 1; // } 9 // return res; 10 return \_\_builtin\_popcount(x^y); 11 12 };

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