

📖 Bit Manipulation

Problems

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#	Title	Acceptance	Difficulty	Frequency 📊
✓ 287	Find the Duplicate Number (/problems/find-the-duplicate-number) ★	59.1%	Medium	
465	Optimal Account Balancing (/problems/optimal-account-balancing) 🔒	49.3%	Hard	
473	Matchsticks to Square (/problems/matchsticks-to-square) ★	40.5%	Medium	
526	Beautiful Arrangement (/problems/beautiful-arrangement)	64.6%	Medium	
318	Maximum Product of Word Lengths (/problems/maximum-product-of-word-lengths)	60.2%	Medium	
2035	Partition Array Into Two Arrays to Minimize Sum Difference (/problems/partition-array-into-two-arrays-to-minimize-sum-difference)	18.0%	Hard	
1611	Minimum One Bit Operations to Make Integers Zero (/problems/minimum-one-bit-operations-to-make-integers-zero)	63.1%	Hard	
1461	Check If a String Contains All Binary Codes of Size K (/problems/check-if-a-string-contains-all-binary-codes-of-size-k)	56.8%	Medium	
✓ 231	Power of Two (/problems/power-of-two)	45.6%	Easy	
1386	Cinema Seat Allocation (/problems/cinema-seat-allocation)	40.7%	Medium	
751	IP to CIDR (/problems/ip-to-cidr) 🔒	54.7%	Medium	
✓ 78	Subsets (/problems/subsets) ★	73.5%	Medium	
943	Find the Shortest Superstring (/problems/find-the-shortest-superstring)	45.0%	Hard	
✓ 136	Single Number (/problems/single-number) ★	70.0%	Easy	
29	Divide Two Integers (/problems/divide-two-integers)	17.4%	Medium	
✓ 268	Missing Number (/problems/missing-number)	61.3%	Easy	
691	Stickers to Spell Word (/problems/stickers-to-spell-word)	46.3%	Hard	
✓ 698	Partition to K Equal Sum Subsets (/problems/partition-to-k-equal-sum-subsets)	41.3%	Medium	
✓ 67	Add Binary (/problems/add-binary)	51.2%	Easy	
✓ 191	Number of 1 Bits (/problems/number-of-1-bits)	64.2%	Easy	
1356	Sort Integers by The Number of 1 Bits (/problems/sort-integers-by-the-number-of-1-bits)	71.9%	Easy	
✓ 137	Single Number II (/problems/single-number-ii) ★	57.6%	Medium	
1404	Number of Steps to Reduce a Number in Binary Representation to One (/problems/number-of-steps-to-reduce-a-number-in-binary-representation-to-one)	51.8%	Medium	
779	K-th Symbol in Grammar (/problems/k-th-symbol-in-grammar)	40.6%	Medium	
864	Shortest Path to Get All Keys (/problems/shortest-path-to-get-all-keys)	45.4%	Hard	
✓ 187	Repeated DNA Sequences (/problems/repeated-dna-sequences) ★	46.0%	Medium	

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1799	Maximize Score After N Operations (/problems/maximize-score-after-n-operations) ★	45.7%	Hard	
371	Sum of Two Integers (/problems/sum-of-two-integers)	50.7%	Medium	
464	Can I Win (/problems/can-i-win)	29.8%	Medium	
✓ 342	Power of Four (/problems/power-of-four)	45.5%	Easy	
1986	Minimum Number of Work Sessions to Finish the Tasks (/problems/minimum-number-of-work-sessions-to-finish-the-tasks)	33.1%	Medium	
1723	Find Minimum Time to Finish All Jobs (/problems/find-minimum-time-to-finish-all-jobs)	42.8%	Hard	
✓ 90	Subsets II (/problems/subsets-ii)	55.0%	Medium	
1009	Complement of Base 10 Integer (/problems/complement-of-base-10-integer)	62.0%	Easy	
1994	The Number of Good Subsets (/problems/the-number-of-good-subsets)	34.0%	Hard	
2172	Maximum AND Sum of Array (/problems/maximum-and-sum-of-array)	46.5%	Hard	
393	UTF-8 Validation (/problems/utf-8-validation)	45.2%	Medium	
1349	Maximum Students Taking Exam (/problems/maximum-students-taking-exam)	48.0%	Hard	
1239	Maximum Length of a Concatenated String with Unique Characters (/problems/maximum-length-of-a-concatenated-string-with-unique-characters)	50.5%	Medium	
2306	Naming a Company (/problems/naming-a-company)	34.2%	Hard	
421	Maximum XOR of Two Numbers in an Array (/problems/maximum-xor-of-two-numbers-in-an-array)	54.6%	Medium	
1342	Number of Steps to Reduce a Number to Zero (/problems/number-of-steps-to-reduce-a-number-to-zero)	85.6%	Easy	
847	Shortest Path Visiting All Nodes (/problems/shortest-path-visiting-all-nodes)	61.3%	Hard	
1284	Minimum Number of Flips to Convert Binary Matrix to Zero Matrix (/problems/minimum-number-of-flips-to-convert-binary-matrix-to-zero-matrix)	72.0%	Hard	
2184	Number of Ways to Build Sturdy Brick Wall (/problems/number-of-ways-to-build-sturdy-brick-wall) 🧱	52.9%	Medium	
2135	Count Words Obtained After Adding a Letter (/problems/count-words-obtained-after-adding-a-letter)	42.7%	Medium	
995	Minimum Number of K Consecutive Bit Flips (/problems/minimum-number-of-k-consecutive-bit-flips)	51.1%	Hard	
1525	Number of Good Ways to Split a String (/problems/number-of-good-ways-to-split-a-string)	69.5%	Medium	
2128	Remove All Ones With Row and Column Flips (/problems/remove-all-ones-with-row-and-column-flips) 🧱	76.4%	Medium	
✓ 190	Reverse Bits (/problems/reverse-bits)	51.6%	Easy	
1617	Count Subtrees With Max Distance Between Cities (/problems/count-subtrees-with-max-distance-between-cities)	65.9%	Hard	
2151	Maximum Good People Based on Statements (/problems/maximum-good-people-based-on-statements)	47.7%	Hard	
2212	Maximum Points in an Archery Competition (/problems/maximum-points-in-an-archery-competition)	48.6%	Medium	
1787	Make the XOR of All Segments Equal to Zero (/problems/make-the-xor-of-all-segments-equal-to-zero)	39.5%	Hard	

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957	Prison Cells After N Days (/problems/prison-cells-after-n-days)	39.2%	Medium	
756	Pyramid Transition Matrix (/problems/pyramid-transition-matrix)	53.5%	Medium	
338	Counting Bits (/problems/counting-bits)	75.1%	Easy	
638	Shopping Offers (/problems/shopping-offers)	54.5%	Medium	
1680	Concatenation of Consecutive Binary Numbers (/problems/concatenation-of-consecutive-binary-numbers)	57.0%	Medium	
491	Increasing Subsequences (/problems/increasing-subsequences)	51.9%	Medium	
996	Number of Squareful Arrays (/problems/number-of-squareful-arrays)	49.2%	Hard	
201	Bitwise AND of Numbers Range (/problems/bitwise-and-of-numbers-range)	42.2%	Medium	
1125	Smallest Sufficient Team (/problems/smallest-sufficient-team)	47.1%	Hard	
89	Gray Code (/problems/gray-code)	56.3%	Medium	
1177	Can Make Palindrome from Substring (/problems/can-make-palindrome-from-substring)	37.8%	Medium	
1255	Maximum Score Words Formed by Letters (/problems/maximum-score-words-formed-by-letters)	72.6%	Hard	
✓ 260	Single Number III (/problems/single-number-iii) ★	67.4%	Medium	
2354	Number of Excellent Pairs (/problems/number-of-excellent-pairs)	45.9%	Hard	
1863	Sum of All Subset XOR Totals (/problems/sum-of-all-subset-xor-totals)	78.8%	Easy	
476	Number Complement (/problems/number-complement)	67.1%	Easy	
2305	Fair Distribution of Cookies (/problems/fair-distribution-of-cookies)	63.1%	Medium	
1763	Longest Nice Substring (/problems/longest-nice-substring)	61.8%	Easy	
401	Binary Watch (/problems/binary-watch)	51.4%	Easy	
2275	Largest Combination With Bitwise AND Greater Than Zero (/problems/largest-combination-with-bitwise-and-greater-than-zero)	72.2%	Medium	
405	Convert a Number to Hexadecimal (/problems/convert-a-number-to-hexadecimal)	46.0%	Easy	
980	Unique Paths III (/problems/unique-paths-iii)	79.6%	Hard	
982	Triples with Bitwise AND Equal To Zero (/problems/triples-with-bitwise-and-equal-to-zero)	57.7%	Hard	
2322	Minimum Score After Removals on a Tree (/problems/minimum-score-after-removals-on-a-tree)	50.3%	Hard	
1720	Decode XORed Array (/problems/decode-xored-array)	85.9%	Easy	
1595	Minimum Cost to Connect Two Groups of Points (/problems/minimum-cost-to-connect-two-groups-of-points)	46.2%	Hard	
266	Palindrome Permutation (/problems/palindrome-permutation) 📌	65.8%	Easy	
898	Bitwise ORs of Subarrays (/problems/bitwise-ors-of-subarrays)	36.8%	Medium	
645	Set Mismatch (/problems/set-mismatch)	41.4%	Easy	
1506	Find Root of N-Ary Tree (/problems/find-root-of-n-ary-tree) 📌	77.8%	Medium	
✓ 1457	Pseudo-Palindromic Paths in a Binary Tree (/problems/pseudo-palindromic-paths-in-a-binary-tree)	68.2%	Medium	
861	Score After Flipping Matrix (/problems/score-after-flipping-matrix)	75.1%	Medium	

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1755	Closest Subsequence Sum (/problems/closest-subsequence-sum)	36.6%	Hard	
2174	Remove All Ones With Row and Column Flips II (/problems/remove-all-ones-with-row-and-column-flips-ii) 📌	69.0%	Medium	
389	Find the Difference (/problems/find-the-difference)	60.4%	Easy	
1829	Maximum XOR for Each Query (/problems/maximum-xor-for-each-query)	76.8%	Medium	
1915	Number of Wonderful Substrings (/problems/number-of-wonderful-substrings) ★	44.7%	Medium	
782	Transform to Chessboard (/problems/transform-to-chessboard)	51.9%	Hard	
1684	Count the Number of Consistent Strings (/problems/count-the-number-of-consistent-strings)	81.8%	Easy	
2002	Maximum Product of the Length of Two Palindromic Subsequences (/problems/maximum-product-of-the-length-of-two-palindromic-subsequences)	53.3%	Medium	
693	Binary Number with Alternating Bits (/problems/binary-number-with-alternating-bits)	61.2%	Easy	
784	Letter Case Permutation (/problems/letter-case-permutation)	73.3%	Medium	
868	Binary Gap (/problems/binary-gap)	61.9%	Easy	
805	Split Array With Same Average (/problems/split-array-with-same-average)	25.9%	Hard	
810	Chalkboard XOR Game (/problems/chalkboard-xor-game)	54.9%	Hard	
✓ 461	Hamming Distance (/problems/hamming-distance)	74.8%	Easy	
1879	Minimum XOR Sum of Two Arrays (/problems/minimum-xor-sum-of-two-arrays)	44.3%	Hard	
1442	Count Triplets That Can Form Two Arrays of Equal XOR (/problems/count-triplets-that-can-form-two-arrays-of-equal-xor)	75.5%	Medium	
1803	Count Pairs With XOR in a Range (/problems/count-pairs-with-xor-in-a-range)	46.7%	Hard	
2044	Count Number of Maximum Bitwise-OR Subsets (/problems/count-number-of-maximum-bitwise-or-subsets)	74.6%	Medium	
2206	Divide Array Into Equal Pairs (/problems/divide-array-into-equal-pairs)	74.9%	Easy	
1707	Maximum XOR With an Element From Array (/problems/maximum-xor-with-an-element-from-array)	44.3%	Hard	
397	Integer Replacement (/problems/integer-replacement)	35.0%	Medium	
2397	Maximum Rows Covered by Columns (/problems/maximum-rows-covered-by-columns)	52.0%	Medium	
1486	XOR Operation in an Array (/problems/xor-operation-in-an-array)	84.1%	Easy	
1947	Maximum Compatibility Score Sum (/problems/maximum-compatibility-score-sum)	60.9%	Medium	
2157	Groups of Strings (/problems/groups-of-strings)	25.0%	Hard	
2401	Longest Nice Subarray (/problems/longest-nice-subarray)	47.3%	Medium	
1835	Find XOR Sum of All Pairs Bitwise AND (/problems/find-xor-sum-of-all-pairs-bitwise-and)	59.8%	Hard	
1318	Minimum Flips to Make a OR b Equal to c (/problems/minimum-flips-to-make-a-or-b-equal-to-c)	66.0%	Medium	
1494	Parallel Courses II (/problems/parallel-courses-ii)	31.2%	Hard	
2411	Smallest Subarrays With Maximum Bitwise OR (/problems/smallest-subarrays-with-maximum-bitwise-or)	39.2%	Medium	
2220	Minimum Bit Flips to Convert Number (/problems/minimum-bit-flips-to-convert-number)	82.0%	Easy	

#	Title	Acceptance	Difficulty	Frequency ?
1310	XOR Queries of a Subarray (/problems/xor-queries-of-a-subarray)	72.1%	Medium	
477	Total Hamming Distance (/problems/total-hamming-distance)	52.2%	Medium	
320	Generalized Abbreviation (/problems/generalized-abbreviation) 🔒	57.2%	Medium	
411	Minimum Unique Word Abbreviation (/problems/minimum-unique-word-abbreviation) 🔒	39.2%	Hard	
672	Bulb Switcher II (/problems/bulb-switcher-ii)	50.9%	Medium	
762	Prime Number of Set Bits in Binary Representation (/problems/prime-number-of-set-bits-in-binary-representation)	67.6%	Easy	
1066	Campus Bikes II (/problems/campus-bikes-ii) 🔒	54.5%	Medium	
1256	Encode Number (/problems/encode-number) 🔒	69.8%	Medium	
1178	Number of Valid Words for Each Puzzle (/problems/number-of-valid-words-for-each-puzzle)	46.6%	Hard	
1238	Circular Permutation in Binary Representation (/problems/circular-permutation-in-binary-representation)	68.7%	Medium	
1371	Find the Longest Substring Containing Vowels in Even Counts (/problems/find-the-longest-substring-containing-vowels-in-even-counts)	63.0%	Medium	
1434	Number of Ways to Wear Different Hats to Each Other (/problems/number-of-ways-to-wear-different-hats-to-each-other)	42.7%	Hard	
1521	Find a Value of a Mysterious Function Closest to Target (/problems/find-a-value-of-a-mysterious-function-closest-to-target)	43.6%	Hard	
1542	Find Longest Awesome Substring (/problems/find-longest-awesome-substring)	41.6%	Hard	
1601	Maximum Number of Achievable Transfer Requests (/problems/maximum-number-of-achievable-transfer-requests)	51.2%	Hard	
1655	Distribute Repeating Integers (/problems/distribute-repeating-integers)	39.7%	Hard	
1659	Maximize Grid Happiness (/problems/maximize-grid-happiness)	38.3%	Hard	
1681	Minimum Incompatibility (/problems/minimum-incompatibility)	37.5%	Hard	
1734	Decode XORed Permutation (/problems/decode-xored-permutation)	62.0%	Medium	
1738	Find Kth Largest XOR Coordinate Value (/problems/find-kth-largest-xor-coordinate-value)	61.7%	Medium	
1815	Maximum Number of Groups Getting Fresh Donuts (/problems/maximum-number-of-groups-getting-fresh-donuts)	40.0%	Hard	
2247	Maximum Cost of Trip With K Highways (/problems/maximum-cost-of-trip-with-k-highways) 🔒	50.2%	Hard	
1908	Game of Nim (/problems/game-of-nim) 🔒	57.3%	Medium	
1938	Maximum Genetic Difference Query (/problems/maximum-genetic-difference-query)	39.8%	Hard	
2152	Minimum Number of Lines to Cover Points (/problems/minimum-number-of-lines-to-cover-points) 🔒	46.8%	Medium	
2317	Maximum XOR After Operations (/problems/maximum-xor-after-operations)	77.9%	Medium	
✓ 2419	Longest Subarray With Maximum Bitwise AND (/problems/longest-subarray-with-maximum-bitwise-and)	46.5%	Medium	
2403	Minimum Time to Kill All Monsters (/problems/minimum-time-to-kill-all-monsters) 🔒	52.9%	Hard	

