ACM Problem Types

Note: M – Mathematical, G – Geometrical, S – String, C – Card, Diff – Difficult, GR – Graph, Bit – Bit Handling, CH – Convex Hull, NT – Number Theory, L – Lexical, T – Tree, P – Parsing,

Normal

100, 101, 102, 106(M), 107(M), 110, 112, 113, 114, 118, 119, 121(G), 122, 126(S), 127, 131(C, Sort), 144, 145, 148, 152(3D-G), 154, 155, 156, 159, 162(C), 168, 173, 177(Diff), 178(C), 187, 188, 201, 202, 213, 226, 227, 232, 243, 253, 255, 256, 262, 264, 275, 278, 300, 311, 312, 320, 324, 330, 332, 333, 337, 339, 340, 344, 346, 347, 349, 350, 369, 371, 379, 380, 385, 390, 394, 395, 401, 403, 404(G), 405, 406, 408, 411, 412, 413, 414, 418, 422, 428, 440, 441, 444, 445, 446, 447, 448, 449, 454, 455, 462(C), 465, 466, 485, 486, 488, 489, 490, 492, 494, 495(S), 496, 498, 499, 505, 518, 530, 541, 543, 554, 555(C), 556, 561, 568, 573, 575, 579, 581, 583(M), 587, 591, 594(Bit), 598, 602, 603, 612, 613, 615(GR), 623, 625, 630, 638, 640, 642, 647, 654(M), 661, 686, 694, 696, 700, 706, 712, 729, 740, 742, 743, 748(S), 756, 763, 10013, 10055, 10056, 10070, 10071, 10093, 10101, 10109, 10115

Floyd-Warshall's

273(G), 336(BFS), 393(FW), 388, 423(BFS), 429(BFS), 436, 439(BFS), 534, 544, 567, 747, 10000,10048,10075,10101

Dynamic Programming

103, 104, 108, 111(LCS), 116(Multistage), 125(FW), 164, 166, 222, 231(LIS), 307, 323, 329(hard), 348, 366, 437(LIS), 442, 497(LIS), 526, 585, 590(Multistage), 531(LCS), 607, 648, 668(LIS), 662, 672(LIS), 609, 709, 711, 757(LIS), 787, 10003, 10051(LIS), 10069(LCS), 10072,

Geometrical

109, 132, 137, 143, 149(Diff), 184, 190, 191, 194, 216, 218(CH), 270, 273(FW), 313, 316(Lin. Alg.), 319, 356, 361(CH), 357(M), 378, 393(FW), 404, 407, 415, 420(3D), 427, 438, 453, 460, 476, 477, 478, 503, 588(Tricky), 535, 609(Backtracking), 688, 721, 744, 10002, 10053, 10075(FW), 10078, 10088, 10089,

Mathematical

128, 138, 160(NT), 182, 199, 294(NT), 356, 357(G), 374, 389, 392, 382, 386, 474(Caching), 516, 550(NT), 684, 616, 731, 766, 10006, 10014, 10061, 10110,

Backtracking

129, 140, 165, 179, 185, 193, 409, 410, 435, 528, 595, 609(G), 624, 652, 653, 639, 695, 751, 10001, 10003

Permutation

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Sorting

105, 120, 142, 200(Topological Sort), 299(Bubble), 450, 501(Insertion), 637, 714, 719, 755,

Joseph

130, 133, 151, 180, 402,

Data Structure

115, 141, 175, 536, 540,

Tree/Binary Tree

123, 297, 752,

Euler ckt./tour

117, 302, 10054,

Parsing

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Coin Change

147, 357, 674

Shortest Path

157(tough), 163, 176, 186, 588,

Multipointer

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String

139, 277, 338, 424, 482, 495, 619,

N Queen

167, 750,

Matrix & Submatrix

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Lexical

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Graph

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BFS

274, 291, 314, 321, 318, 336(FW), 352, 383(FW), 423(FW), 429(FW), 439(FW), 532, 571, 560, 589, 677, 747(FW), 762, 10044, 10097,

DFS

274, 291, 314, 318, 352, 459, 469, 677,

0/1 Knapsack

301, 562,

Impossible

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Simulation

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Judge

310, 515, 517, 520, 521, 10022,

Articulation pt.

315, 10099,

Greedy

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Extrapolation

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Base/Base Conversion

343, 355, 377, 389,

Network Flow

506, 563, 670, 753,

Stack

514, 586, 673,

Subsets / Sum of Subsets

574,

AND/OR

608,

ID Search

529, 656

Cryptography

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