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| --- | --- | --- | --- |
| KNAPSACK | | | |
|  | TIME | COST | ITEMS |
| p01 | 0.010963332653045655 | 309 | [0, 1, 1, 1, 0, 1, 0, 0, 0, 0] |
| p02 | 0.0035239100456237794 | 51 | [0, 1, 1, 1, 0] |
| p03 | 0.0039240789413452146 | 150 | [0, 0, 0, 1, 1, 0] |
| p04 | 0.00453106164932251 | 107 | [1, 1, 0, 0, 0, 0, 0] |
| p05 | 0.0045320987701416016 | 900 | [1, 0, 1, 1, 1, 0, 1, 1] |
| p06 | 0.004687960147857666 | 1735 | [0, 1, 0, 1, 0, 0, 1] |
| p07 | 0.008918466567993165 | 1458 | [1, 0, 1, 0, 1, 0, 1, 1, 1, 0, 0, 0, 0, 1, 1] |

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| SALESMAN | | | |
|  | TIME | PATH | BEST RESULT |
| a280 | 0.8914708805084228 | 31313.559487724702 | [4, 276, 255, 223, 187, 176, 25, 116, 147, 56, 84, 156, 127, 128, 231, 3, 259, 54, 110, 27, 177, 192, 254, 213, 193, 41, 103, 64, 252, 197, 55, 245, 221, 260, 29, 134, 51, 257, 152, 76, 121, 158, 16, 44, 138, 205, 165, 253, 94, 104, 119, 233, 273, 228, 161, 191, 67, 211, 28, 15, 172, 80, 219, 251, 144, 200, 131, 247, 139, 85, 169, 50, 109, 246, 122, 87, 203, 83, 124, 149, 267, 74, 101, 2, 132, 184, 215, 162, 154, 266, 31, 120, 78, 269, 49, 150, 188, 113, 75, 62, 206, 212, 181, 7, 164, 1, 175, 143, 71, 108, 72, 130, 17, 90, 45, 60, 236, 6, 235, 70, 217, 69, 249, 202, 216, 102, 81, 13, 232, 185, 129, 126, 100, 42, 136, 111, 20, 209, 63, 47, 207, 262, 168, 190, 86, 99, 43, 241, 33, 65, 106, 12, 24, 118, 174, 61, 125, 263, 277, 237, 66, 133, 239, 227, 137, 268, 258, 250, 208, 163, 89, 105, 166, 265, 218, 228, 64, 150, 274, 211, 221, 29, 153, 156, 236, 265, 234, 96, 258, 87, 43, 51, 240, 118, 9, 134, 145, 201, 239, 148, 190, 66, 98, 61, 55, 152, 62, 37, 136, 11, 22, 273, 252, 219, 48, 160, 213, 229, 208, 198, 233, 271, 196, 197, 127, 41, 247, 31, 237, 155, 276, 89, 215, 1, 71, 25, 2, 275, 227, 223, 202, 137, 63, 116, 115, 158, 99, 195, 8, 278, 21, 244, 93, 183, 145, 240, 271, 97, 214, 272, 9, 270, 107, 256, 26, 135, 95, 234, 178, 96, 32, 23, 264, 48, 52, 73, 151, 123, 199, 248] |
| att48 | 0.11212944030761719 | 120546.55900687104 | [1, 0, 27, 9, 28, 39, 32, 2, 43, 3, 4, 7, 8, 37, 20, 16, 11, 17, 26, 14, 19, 29, 30, 45, 18, 42, 36, 35, 40, 33, 10, 44, 31, 34, 24, 21, 15, 38, 5, 6, 12, 47, 23, 22, 46, 25, 41, 13] |
| bays29 | 0.11135336637496948 | 20268.22554489645 | [0, 8, 28, 5, 4, 14, 12, 9, 19, 1, 20, 3, 23, 25, 27, 7, 6, 15, 17, 21, 13, 26, 22, 24, 11, 18, 2, 10, 16] |
| ch150 | 0.49467198610305785 | 48622.95888962407 | [1, 65, 85, 62, 93, 11, 137, 42, 60, 38, 10, 0, 34, 146, 128, 52, 112, 9, 86, 91, 2, 63, 105, 48, 21, 96, 56, 25, 73, 41, 29, 3, 90, 113, 148, 19, 115, 57, 116, 69, 94, 141, 28, 46, 75, 110, 18, 95, 88, 103, 118, 79, 54, 6, 68, 26, 22, 7, 122, 130, 143, 13, 111, 102, 70, 89, 129, 139, 121, 50, 120, 78, 44, 106, 31, 117, 80, 55, 53, 77, 58, 82, 40, 100, 74, 142, 66, 81, 51, 76, 147, 67, 16, 43, 92, 36, 119, 14, 132, 98, 104, 135, 123, 47, 24, 107, 127, 33, 87, 27, 144, 59, 30, 35, 131, 8, 5, 101, 61, 145, 97, 17, 134, 136, 140, 109, 83, 99, 125, 72, 133, 124, 71, 49, 23, 39, 20, 108, 114, 4, 126, 149, 15, 12, 138, 37, 84, 64, 45, 32] |
| fl417 | 1.2975623607635498 | 447257.67779473244 | [3, 198, 114, 301, 335, 118, 28, 205, 80, 69, 127, 269, 50, 22, 305, 207, 355, 392, 396, 372, 201, 406, 97, 53, 410, 206, 54, 179, 159, 60, 221, 170, 26, 98, 180, 317, 193, 172, 31, 208, 83, 313, 256, 385, 96, 63, 7, 240, 131, 187, 247, 375, 185, 19, 25, 65, 11, 390, 43, 289, 16, 376, 235, 87, 352, 297, 105, 111, 95, 148, 42, 136, 165, 231, 258, 78, 85, 290, 145, 324, 210, 191, 24, 298, 283, 146, 227, 128, 174, 275, 405, 336, 363, 30, 52, 246, 29, 32, 214, 260, 48, 332, 166, 45, 333, 173, 155, 267, 308, 162, 384, 218, 404, 196, 37, 49, 36, 72, 203, 409, 265, 343, 106, 86, 292, 382, 230, 365, 71, 164, 132, 219, 55, 321, 312, 192, 415, 61, 100, 326, 253, 181, 204, 293, 266, 76, 90, 303, 51, 167, 13, 285, 357, 186, 74, 12, 281, 408, 223, 171, 121, 255, 92, 237, 21, 77, 261, 397, 101, 176, 274, 68, 257, 296, 238, 107, 413, 359, 202, 242, 56, 113, 358, 17, 402, 182, 67, 62, 139, 109, 241, 393, 99, 163, 338, 190, 323, 144, 381, 282, 307, 184, 314, 158, 337, 278, 395, 156, 279, 27, 213, 175, 411, 211, 119, 320, 239, 215, 200, 348, 75, 264, 89, 47, 339, 306, 310, 277, 259, 346, 383, 161, 0, 322, 340, 388, 4, 116, 140, 370, 141, 93, 79, 232, 154, 311, 153, 84, 133, 122, 120, 347, 143, 169, 46, 110, 367, 341, 39, 147, 58, 123, 199, 284, 319, 271, 263, 386, 244, 138, 328, 220, 1, 222, 8, 356, 351, 327, 399, 38, 150, 360, 299, 57, 130, 168, 325, 108, 82, 373, 188, 318, 35, 209, 135, 177, 216, 291, 252, 88, 178, 44, 66, 286, 102, 248, 309, 129, 354, 94, 288, 315, 40, 334, 125, 249, 34, 353, 233, 364, 112, 10, 15, 280, 378, 414, 225, 377, 137, 70, 262, 243, 331, 234, 345, 344, 117, 330, 316, 194, 59, 103, 33, 412, 349, 5, 217, 250, 380, 369, 368, 224, 157, 14, 41, 126, 195, 23, 115, 403, 371, 81, 124, 64, 294, 273, 407, 268, 9, 226, 251, 295, 73, 276, 287, 391, 394, 389, 300, 152, 374, 270, 272, 342, 197, 6, 142, 160, 362, 2, 416, 151, 400, 366, 361, 183, 254, 212, 245, 398, 149, 304, 91, 229, 387, 379, 401, 228, 350, 236, 302, 134, 189, 18, 20, 329, 104] |