- 1 "C:\Users\Stefanos Demetriou\venv\Python37\Scripts\python.
 exe" "C:/Users/Stefanos Demetriou/Documents/Year 2/
 Software Methodologies/AI Search/Assignment/Simulated
 Annealing/cityTours.py"
 2 The very best tour for 12 cities is 56
 3 1,6,4,9,7,2,3,5,8,11,10,12,
- 4 This took 14.036320924758911 to run
- 5 The very best tour for 17 cities is 1444
- 6 5, 11, 3, 9, 2, 10, 17, 14, 6, 16, 7, 4, 15, 13, 12, 1, 8,
- 7 This took 34.94029974937439 to run
- 8 The very best tour for 21 cities is 2549
- 9 19,21,13,11,16,12,20,18,17,1,7,14,4,5,9,6,8,10,15,3,2,
- 10 This took 51.4605598449707 to run
- 11 The very best tour for 26 cities is 1473
- 12 2,5,24,3,4,15,19,9,6,14,12,22,8,26,25,16,23,7,21,11,1,18, 13,20,17,10,
- 13 This took 70.15631008148193 to run
- 14 The very best tour for 42 cities is 1059
- 15 32,12,6,10,38,1,7,36,13,4,34,5,14,8,2,39,25,40,11,30,41,17,28,23,35,24,3,27,18,37,20,19,26,31,15,29,33,21,16,22,9,42
- 16 This took 145.71406960487366 to run
- 17 The very best tour for 48 cities is 12330
- 18 4,11,41,31,21,5,10,48,47,7,1,8,34,37,19,32,18,25,9,38,29, 46,28,30,39,17,44,13,27,14,43,22,20,16,26,45,3,24,23,6,15, 35,40,33,42,36,12,2,
- 19 This took 183.53461050987244 to run
- 20 The very best tour for 58 cities is 25395
- 21 51,9,4,29,15,40,35,2,39,32,12,8,58,57,19,54,52,50,47,43,17,18,31,56,27,6,46,23,44,13,11,42,49,21,25,16,55,37,7,38,48,34,53,1,24,3,41,22,33,26,10,5,14,28,20,36,45,30,
- 22 This took 248.35593676567078 to run
- 23 The very best tour for 175 cities is 21566
- 24 169,72,93,40,50,82,129,59,64,140,9,81,103,162,15,34,27,78,139,117,45,35,170,39,6,120,155,87,62,149,113,28,95,133,26,33,88,43,156,105,163,61,138,60,115,51,147,18,2,161,104,97,47,73,89,31,12,96,160,112,63,29,49,126,164,108,116,20,71,94,100,53,145,102,4,111,99,168,65,38,36,173,137,148,119,75,106,74,67,90,66,144,152,68,17,46,123,22,143,122,128,130,109,159,166,3,171,16,57,44,14,5,76,10,91,30,79,70,132,172,165,56,80,142,52,134,92,77,86,175,174,136,124,32,151,110,146,83,150,101,158,154,13,21,107,55,19,141,48,135,25,167,23,58,85,127,41,84,24,37,1,125,121,69,11,98,153,54,8,7,114,157,131,118,42,
- 25 This took 1815.6424815654755 to run

- 26 The very best tour for 180 cities is 1950
- 27 10,129,60,48,159,75,33,15,163,114,90,56,7,131,164,68,42,59,54,49,95,130,154,77,11,12,116,63,140,73,125,102,32,72,35,167,13,98,127,169,142,29,117,120,105,149,124,173,9,128,81,91,23,165,55,69,135,84,70,162,4,8,21,122,71,180,3,26,79,153,44,94,20,45,143,58,166,62,86,158,74,145,150,92,2,141,61,178,76,99,151,100,38,113,96,133,1,47,18,65,119,134,88,148,17,83,146,97,6,22,176,101,43,52,80,155,67,111,170,157,14,53,174,137,51,106,144,30,82,115,160,172,5,103,147,93,19,16,107,85,112,123,168,27,25,66,36,57,50,110,34,118,28,37,136,126,24,104,108,156,46,64,109,179,39,161,41,171,31,152,121,87,175,78,89,177,138,40,132,139,
- 28 This took 1929.7930507659912 to run
- 29 The very best tour for 535 cities is 49895 30 65,89,391,167,227,117,283,350,98,501,2,186,201,340,377,360 ,187,90,358,200,109,174,292,78,386,30,75,459,242,14,34,453 ,282,329,516,226,411,240,317,99,524,216,95,447,38,510,390, 56, 235, 474, 434, 160, 3, 529, 102, 55, 495, 224, 194, 388, 365, 199, 112,383,37,177,137,493,91,10,451,183,182,295,455,166,68, 341, 181, 525, 165, 74, 215, 154, 206, 507, 70, 457, 517, 323, 395, 307, 245,58,192,50,431,438,51,173,406,259,338,335,205,143,319, 85, 262, 48, 129, 208, 233, 339, 308, 384, 7, 161, 518, 351, 254, 439, 304, 207, 412, 441, 80, 464, 246, 188, 127, 280, 273, 190, 126, 66, 203, 238, 293, 132, 463, 414, 300, 138, 193, 496, 432, 106, 321, 135, 498, 77 ,422,27,12,265,491,222,236,4,488,468,394,17,461,237,153, 452,511,291,83,361,234,530,497,289,134,204,202,462,151,521 ,269,6,281,393,172,445,64,526,81,494,458,79,290,296,400, 392, 251, 253, 362, 326, 116, 244, 232, 21, 423, 378, 171, 96, 45, 398, 430,407,301,184,157,268,28,20,363,342,487,330,67,140,303, 346, 191, 24, 123, 416, 231, 298, 305, 533, 196, 426, 101, 380, 54, 502, 279, 294, 314, 449, 336, 250, 152, 297, 60, 189, 352, 486, 92, 110, 88, 52,325,195,500,446,403,128,19,485,230,343,349,170,456,332, 176,344,514,263,225,381,354,107,428,477,111,505,76,149,108 ,44,409,467,286,482,387,213,375,162,141,33,535,42,62,258, 270,133,379,316,331,8,425,310,1,71,252,442,353,311,499,397 ,504,266,241,345,475,229,147,197,368,179,490,100,105,436, 39, 302, 483, 198, 478, 443, 115, 86, 278, 148, 122, 359, 130, 11, 223, 367,104,26,479,415,492,324,513,256,22,61,534,18,532,212, 180,520,82,155,399,87,472,25,448,313,139,46,43,261,318,164 ,218,473,402,374,433,150,408,435,444,40,277,327,113,209, 260, 159, 47, 239, 424, 72, 376, 264, 503, 276, 63, 460, 366, 32, 5, 249, 404, 29, 450, 73, 69, 36, 31, 465, 508, 429, 175, 413, 364, 527, 275, 373 ,53,35,84,454,219,16,168,333,420,522,312,274,334,284,309, 97, 427, 421, 348, 272, 405, 515, 185, 315, 221, 217, 211, 119, 124, 163 ,120,471,287,59,419,285,178,372,370,267,93,396,369,306,519

30	,169,125,417,531,509,103,13,470,131,437,401,57,476,220,523
	,248,528,41,484,15,382,337,94,257,136,466,322,320,121,356,
	243,145,371,228,210,385,357,114,156,512,440,480,142,146,
	247, 355, 506, 489, 288, 118, 23, 328, 158, 418, 49, 255, 347, 481, 214,
	144,389,271,9,299,410,469,
31	This took 16320.492926359177 to run
	11115 COOK 10020 192920009177 CO Tail
32	
33	Process finished with exit code 0
	Treeses rimbined wrem entre code o
34	