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\Rightarrow Begin \Leftarrow \Rightarrow Objective function f(p), city distances array; \Leftarrow \Rightarrow Initial a population of n host nests (cities)) xi, \Leftarrow $\Rightarrow i = 1;2; ???;n; \Leftarrow$ \Rightarrow Cuckoos fly via Levy flight to find an initial route (solution). \Leftarrow \Rightarrow Mend initial solutions and saved in the bulletin board. \Leftarrow \Rightarrow Evaluate the route length (fitness) of solutions Fi; \Leftarrow \Rightarrow (HTML translation failed) \Leftarrow $\Rightarrow Cuckoos start from their nest to search new nests; \iff$ $\Rightarrow (HTML translation failed) \iff$ \Rightarrow Replace old nest by new one, \Leftarrow \Rightarrow Reverse the segment between old nest and new one, \Leftarrow \Rightarrow Refresh bulletin board. \Leftarrow \Rightarrow end if \Leftarrow \Rightarrow Host birds abandon pa \in (0;1) nests, and search pa \Leftarrow \Rightarrow new nests; \Leftarrow \Rightarrow Refresh the bulletin board and keeping the best solutions \Leftarrow \Rightarrow (and nests). \Leftarrow \Rightarrow Rank the solutions, and find the current best route (solution). \Leftarrow $\Rightarrow t = t + 1; \Leftarrow$ \Rightarrow end while \Leftarrow \Rightarrow Post process results and visualization. \Leftarrow \Rightarrow end \Leftarrow

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