

LAB 5

Simulated Annealing

Algorithm:

Current \leftarrow initial stateWhile $T > 0$ do Next \leftarrow a random neighbor of Current $\Delta E \leftarrow$ Current.cost - Next.cost if $\Delta E > 0$ then Current \leftarrow Next

else

 Current \leftarrow Next with probability $p = e^{\Delta E/T}$

end if

 decrease T

End while

~~return Current~~

return Current.

input (Initial state)

0	-	-	-	-	-	-
-	0	-	-	-	-	-
-	-	0	-	-	-	-
-	-	-	0	-	-	-
-	-	-	-	0	-	-
-	-	-	-	-	0	-
-	-	-	-	-	-	0
-	-	-	-	-	-	-

Final state

-	-	0	-	-	-	-
-	-	-	-	0	-	-
-	-	-	-	-	-	0
-	-	-	0	-	-	-
0	-	-	-	-	-	-
-	-	-	-	-	0	-
-	0	-	-	-	-	-
-	-	-	-	0	-	-

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