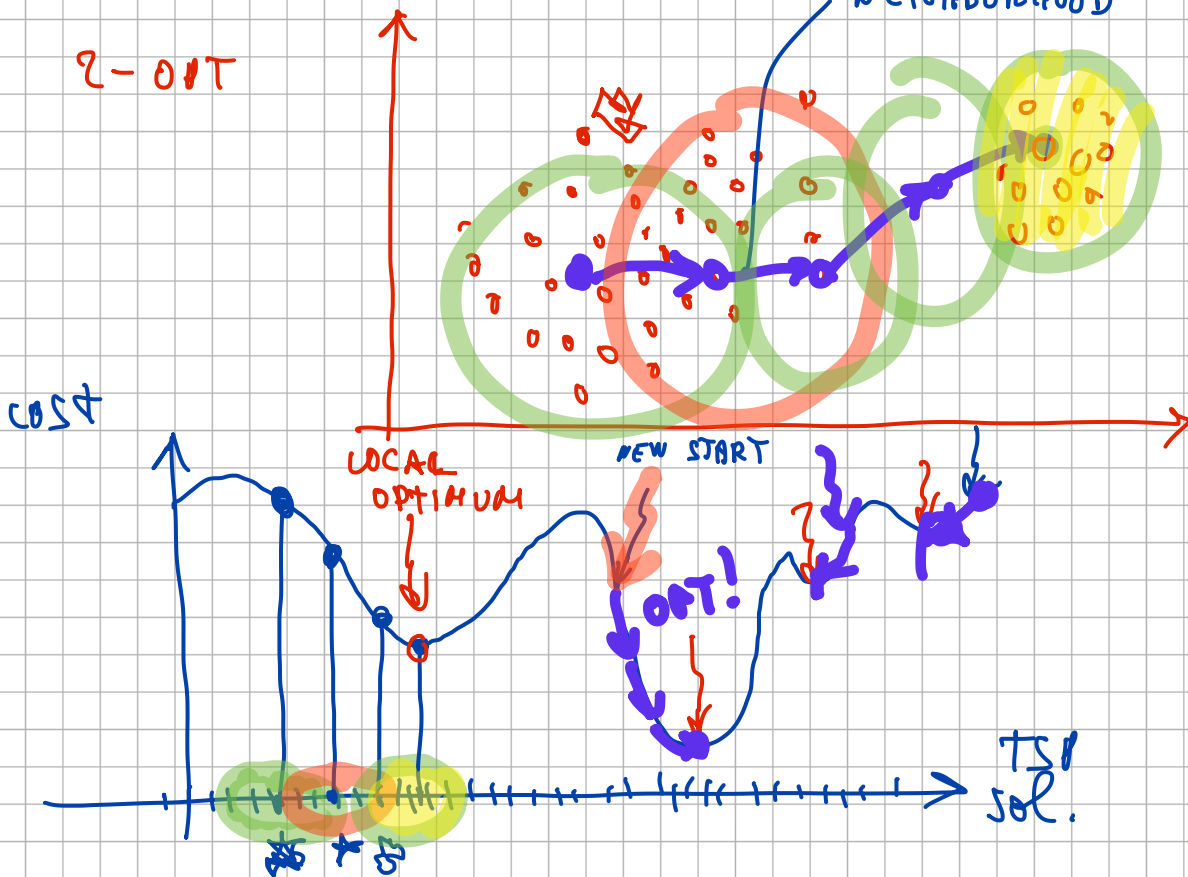


OR2

25-march-2022

2-OPT NEIGHBORHOOD

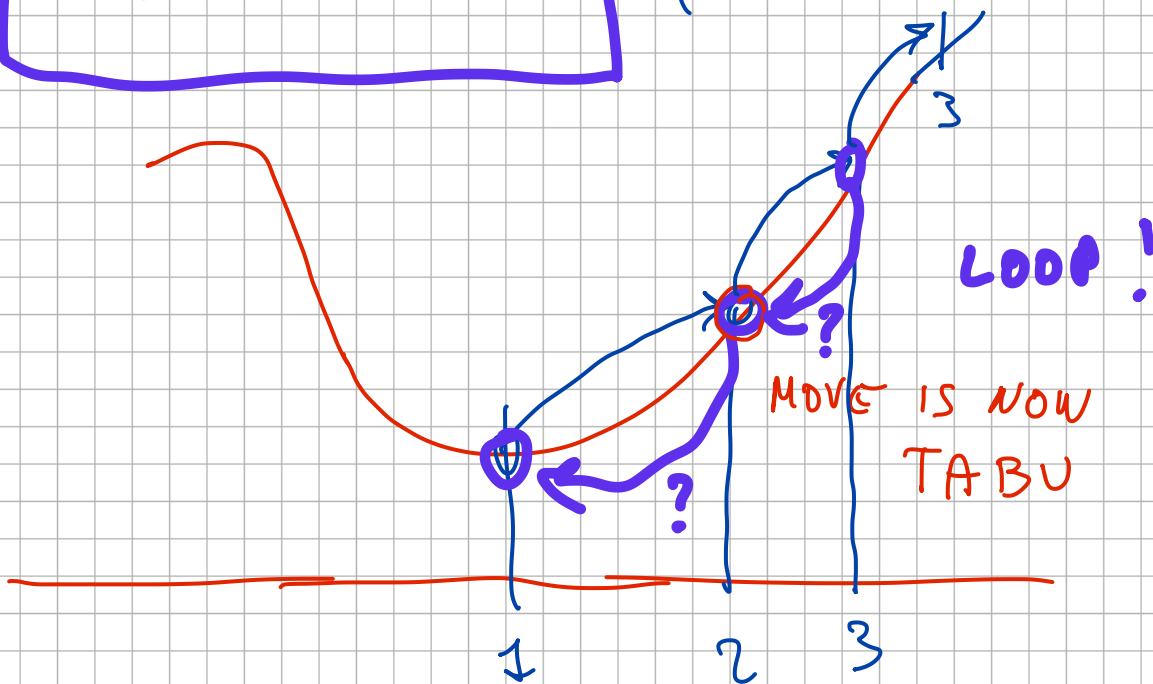


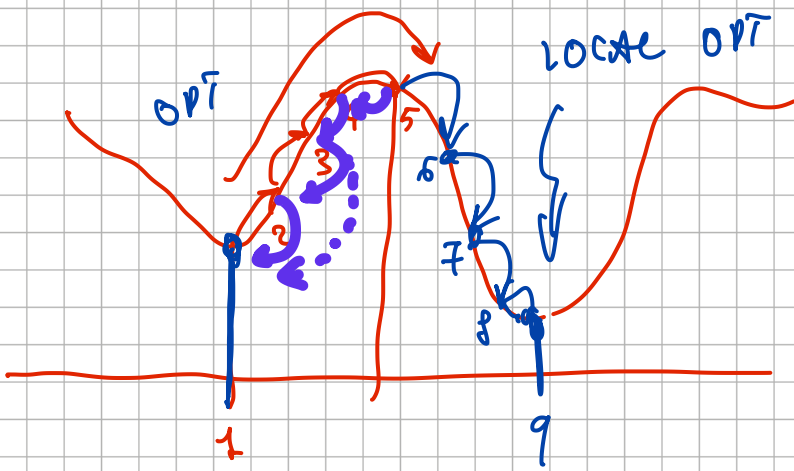
- RANDOM MULTISTART

- GRASP II

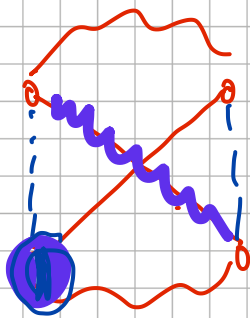
TABU SEARCH

(F. Glover ~ 1970)

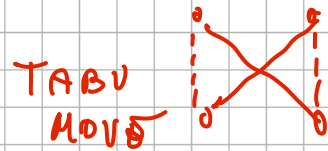




TABU LIST



NODE
TABU

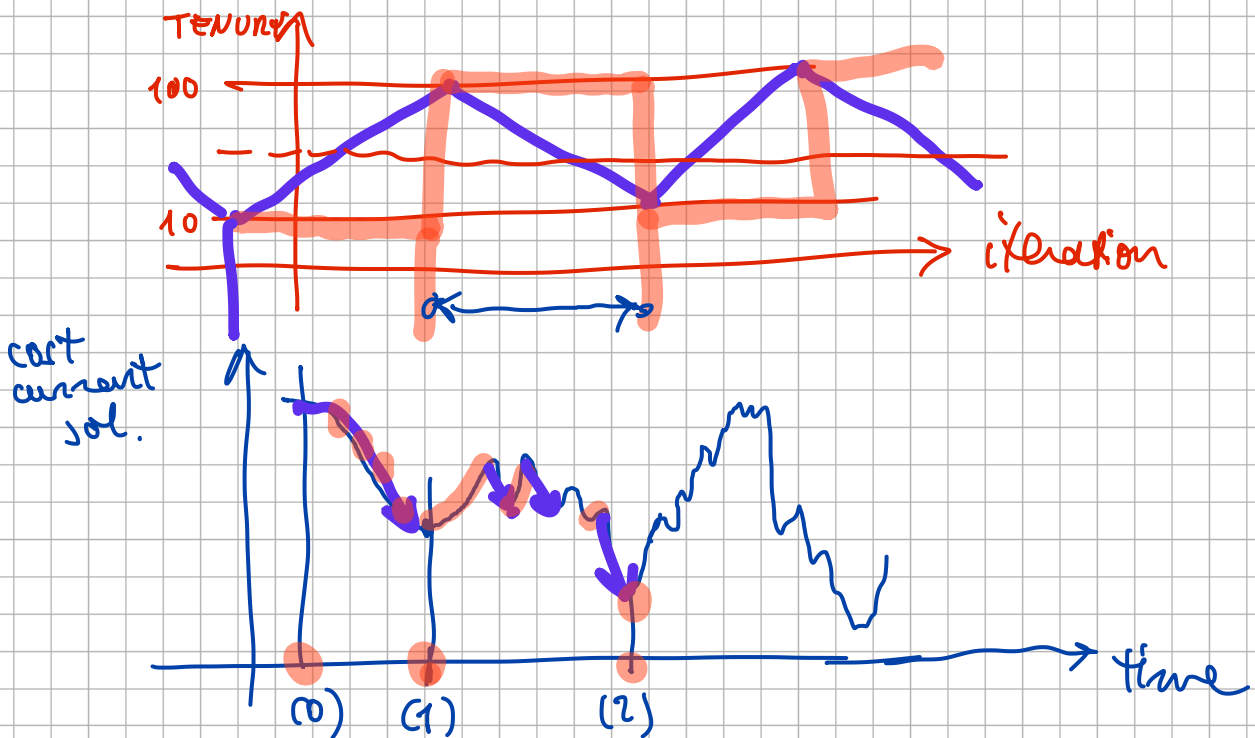


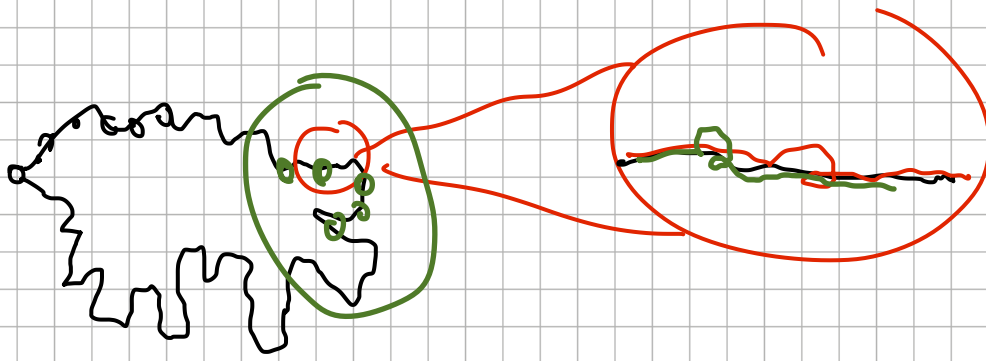
TABU LIST

TENURE

TABU #1
#2
#3
⋮
⋮
⋮

REACTIVE TABU SEARCH





AVOID TOO SMALL CHANGES!

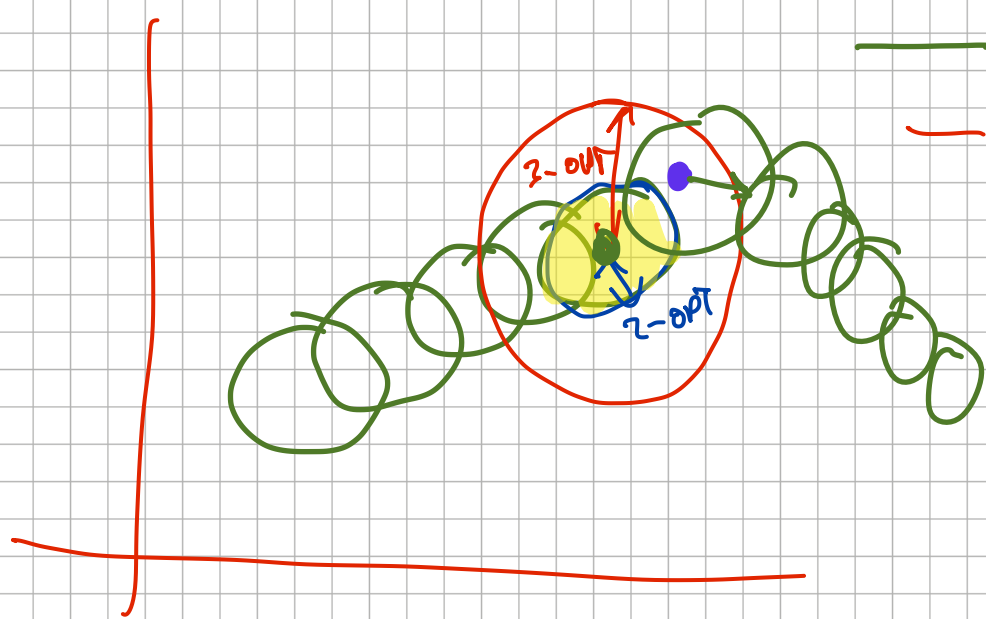
VNS

Variable
Neigh.
Search

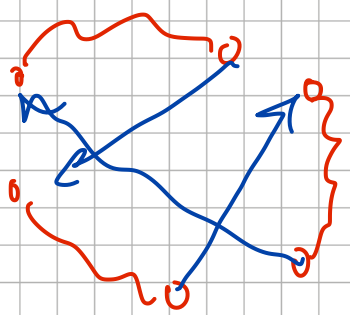
P. HANSEN
N. MLADENOVICH
~ 1997

2-OPT

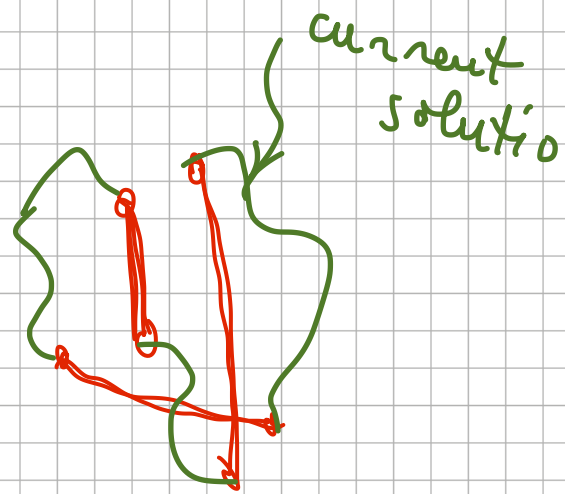
3-OPT



3-OPT KICK

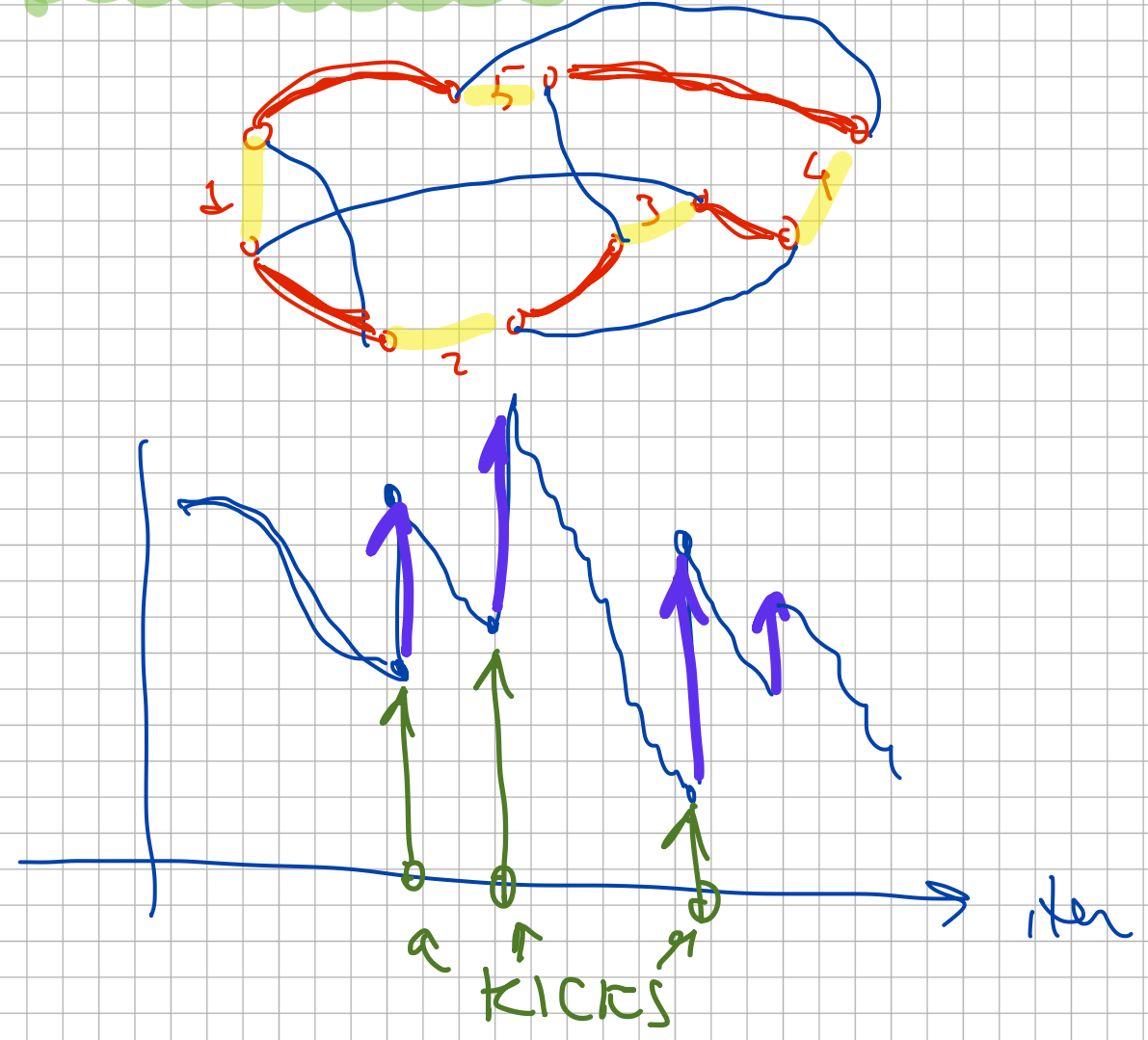


$O(n^3)$



3-OPT
KICK

4-OPT KICKS
 5-OPT KICKS



How to collect statistics in the code?

PRINT a line containing relevant INPUT/OUTPUT

```
$STAT ; 231.1 ; 2713.2 ; 7 ; 600 ;
           p best total. cost. sol. input par. n.1
           input par. n.2
```

> ./tsp -n 50 -te 600 > log.txt

> **grep** "\$STAT" log.txt > stat.csv
 FIND