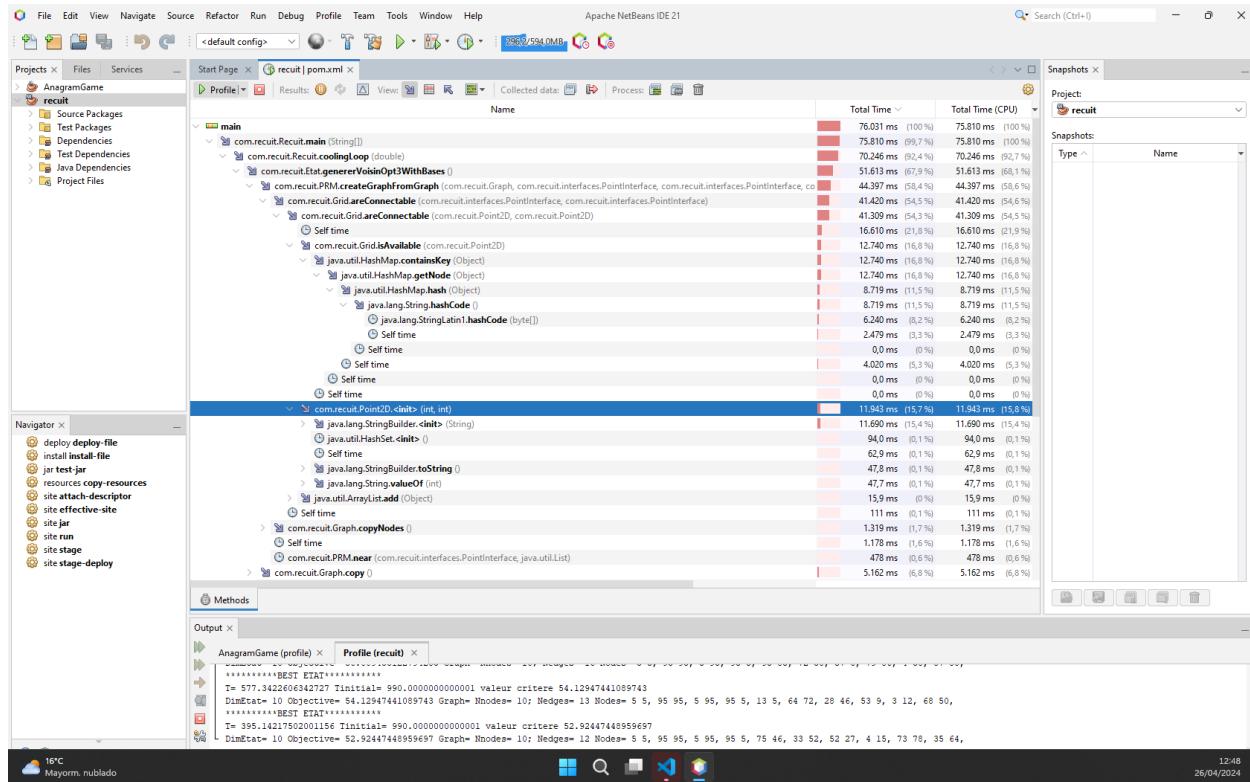
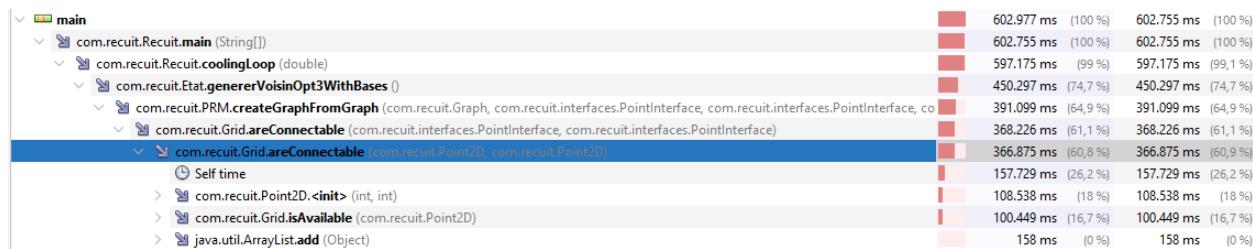


# SPRINT 11

## 1. Netbeans profiler



Efectivament:



**areConnectable** is the most consuming function.

## 2. Store in MongoDB all the information about edges.

→ → **TOO CONSUMING**

Not only for generating the db mais requests pour chaque fois.

- Autres options?
- 

3. Generate a **dictionary** from a json file

edge1 + edge2 + 1.0 if connectable + distance

+ 0.0 if not connectable + distance

```
0 0 0 0 1.0 0.0
0 0 0 1 1.0 1.0
0 0 0 2 1.0 2.0
0 0 0 3 1.0 3.0
0 0 0 4 1.0 4.0
0 0 0 5 1.0 5.0
0 0 0 6 1.0 6.0
0 0 0 7 1.0 7.0
0 0 0 8 1.0 8.0
0 0 0 9 1.0 9.0
0 0 0 10 1.0 10.0
0 0 0 11 1.0 11.0
0 0 0 12 1.0 12.0
0 0 0 13 1.0 13.0
0 0 0 14 1.0 14.0
0 0 0 15 1.0 15.0
0 0 0 16 1.0 16.0
0 0 0 17 1.0 17.0
0 0 0 18 1.0 18.0
0 0 0 19 1.0 19.0
0 0 0 20 1.0 20.0
0 0 0 21 1.0 21.0
0 0 0 22 1.0 22.0
0 0 0 23 1.0 23.0
0 0 0 24 1.0 24.0
0 0 0 25 1.0 25.0
0 0 0 26 1.0 26.0
0 0 0 27 1.0 27.0
0 0 0 28 1.0 28.0
0 0 0 29 1.0 29.0
0 0 0 30 1.0 30.0
0 0 0 31 1.0 31.0
0 0 0 32 1.0 32.0
```

Ln 15, Col 11 | 171.978.705 caracteres.

15069903	15 6 99 2 0.0 84.09518416651456
15069904	15 6 99 3 0.0 84.0535543567314
15069905	15 6 99 4 0.0 84.02380615040002
15069906	15 6 99 5 0.0 84.00595217006948
15069907	15 6 99 6 0.0 84.0
15069908	15 6 99 7 0.0 84.00595217006948
15069909	15 6 99 8 0.0 84.02380615040002
15069910	15 6 99 9 0.0 84.0535543567314

All the connections done and not ended (10e7)

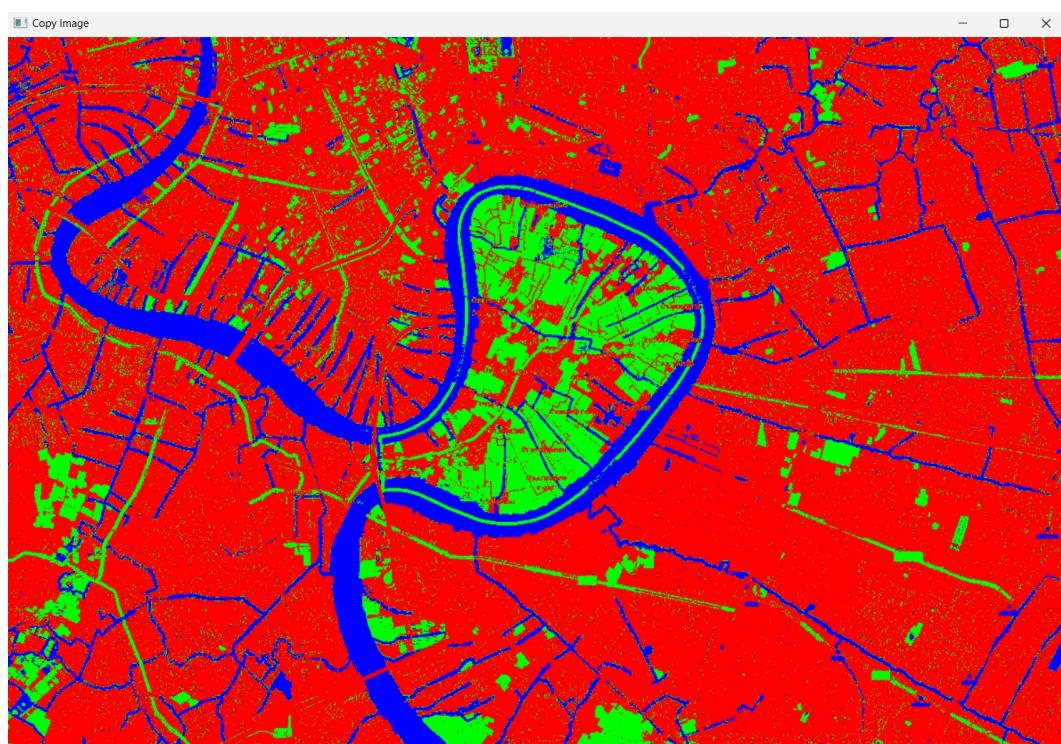
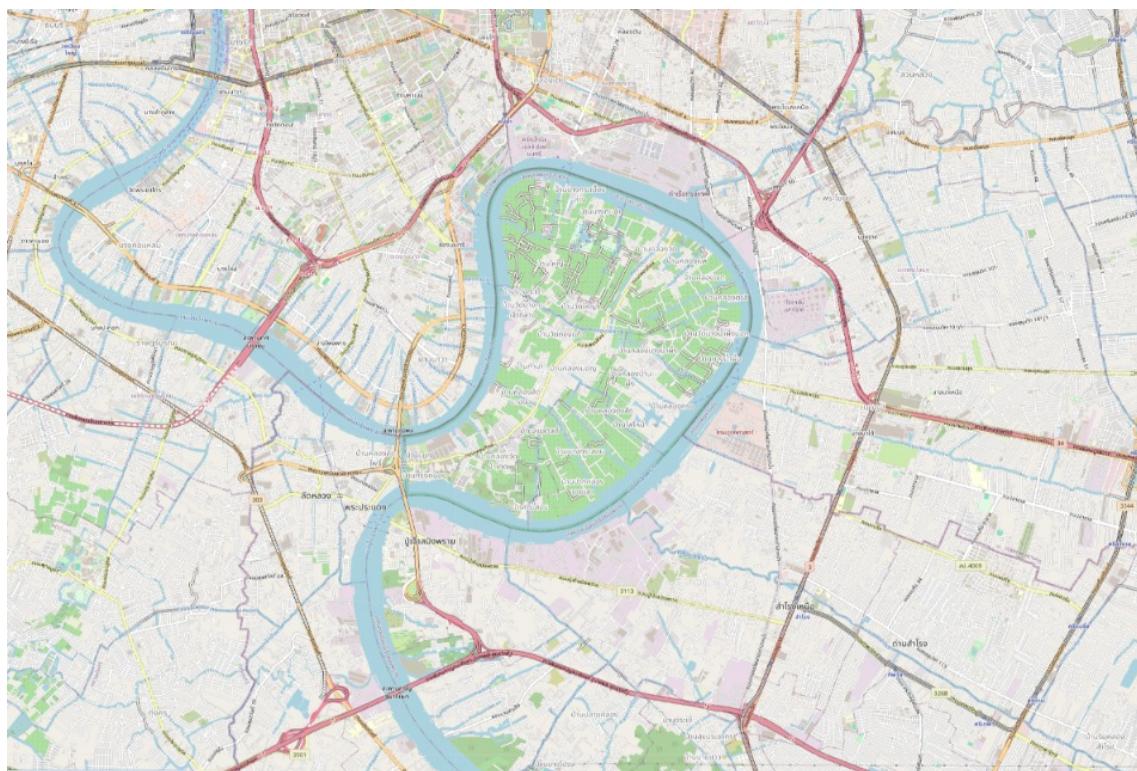
→ → **TOO BIG**

---

#### 4. Bangkok city

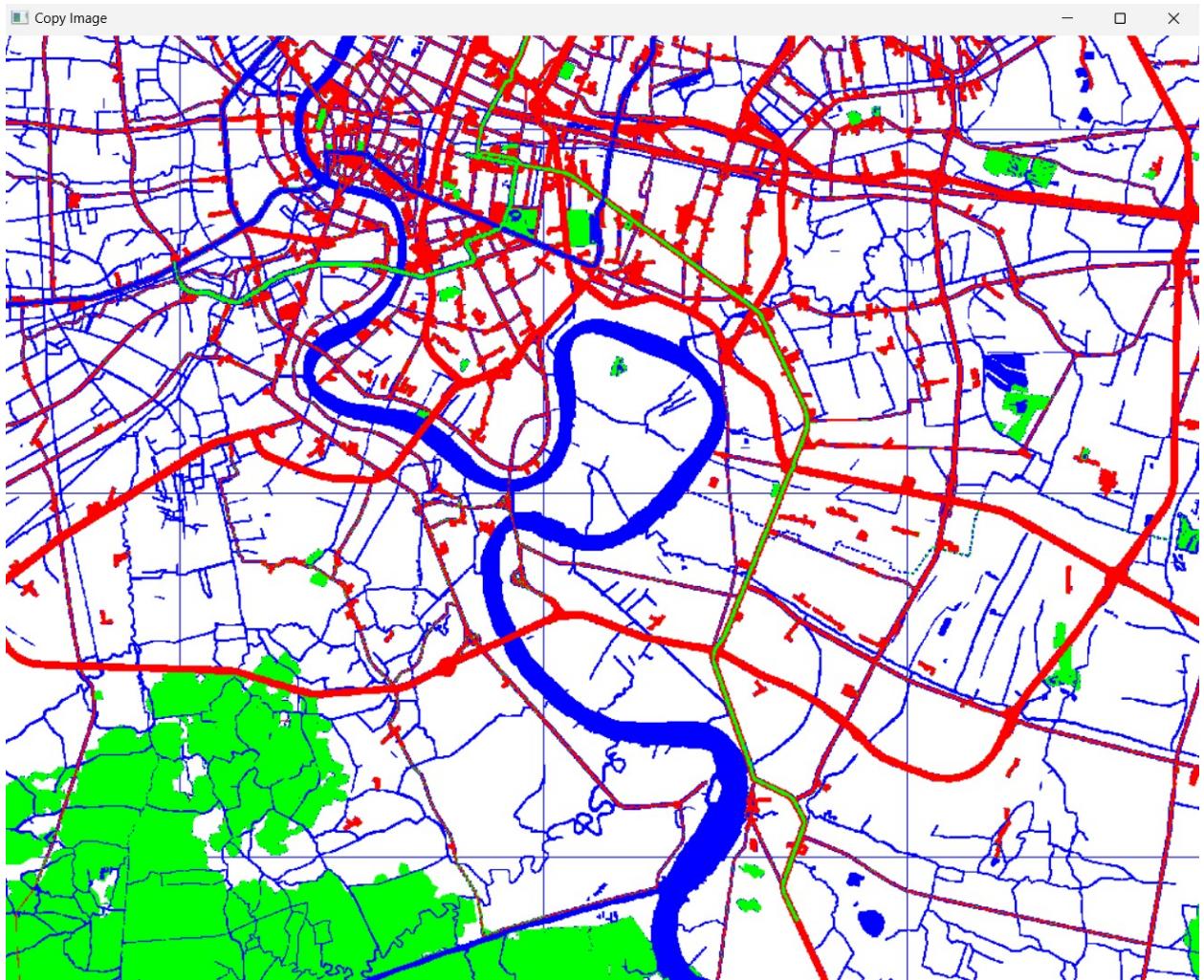
- trial 1

detect the components RGB



- trial 2



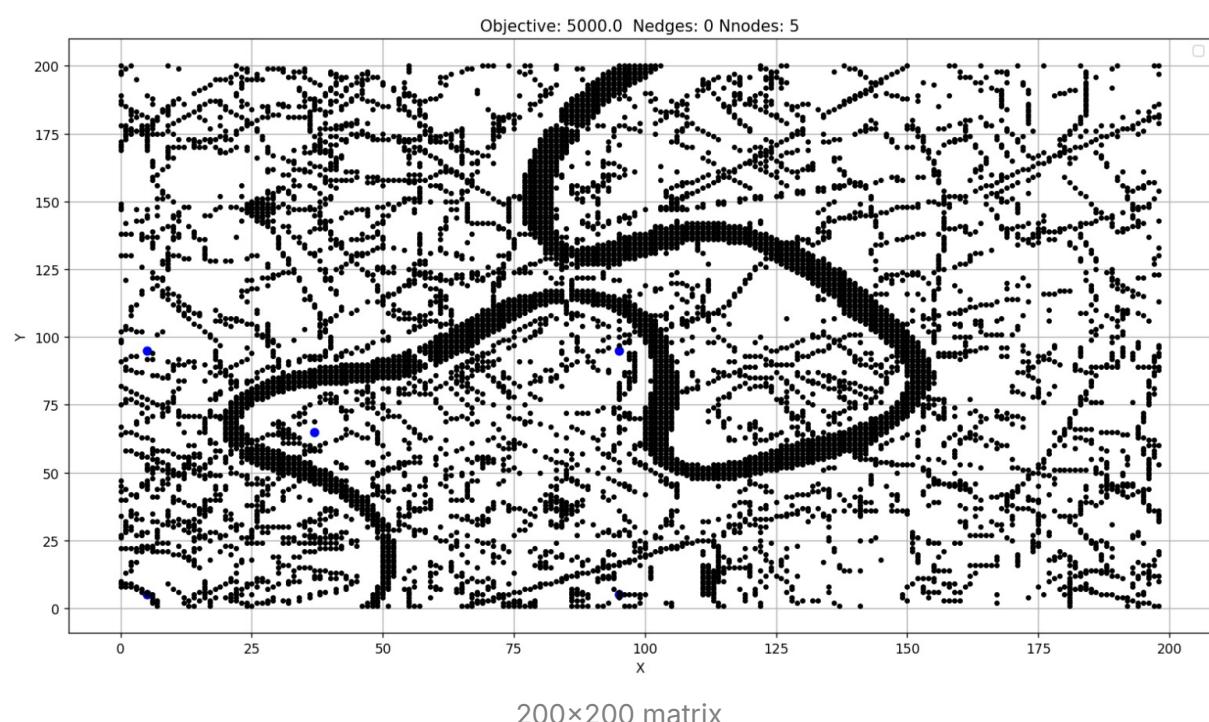
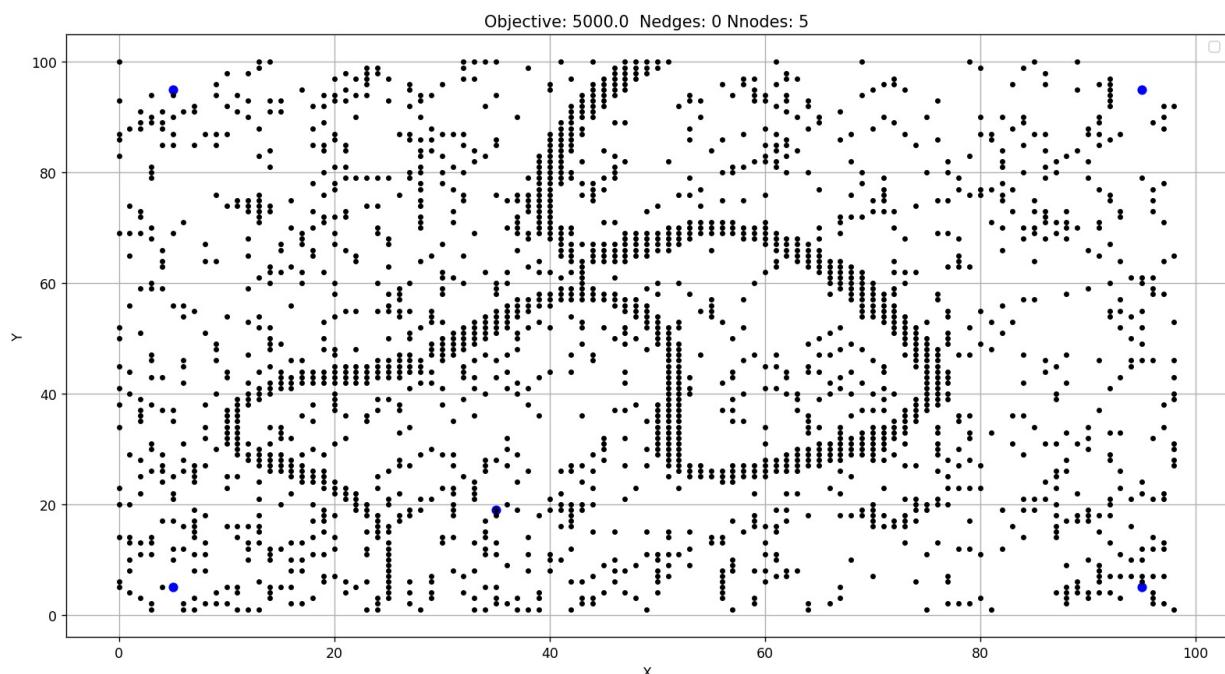


- Convert to a matrix the blue parts:

1st: rescale the image

2nd: I filtrate the colours

3rd: if blue > obstacle



Problem > there are too many obstacles

Solution > filtrate.

Filter:

0

if structure == 0 1 0

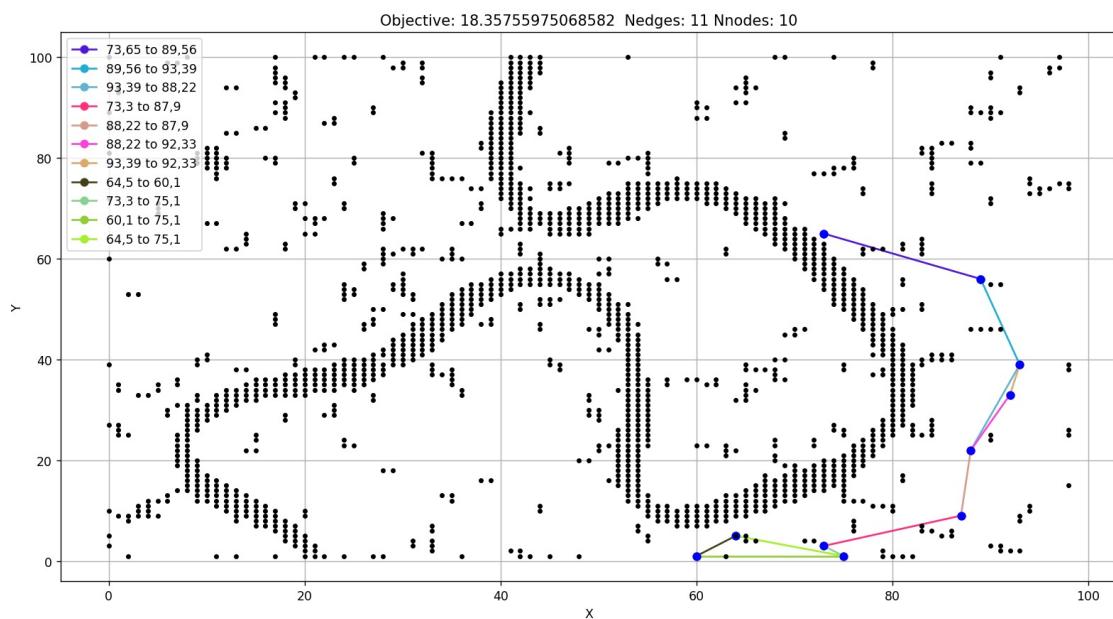
0

0

then change to structure == 0 0 0

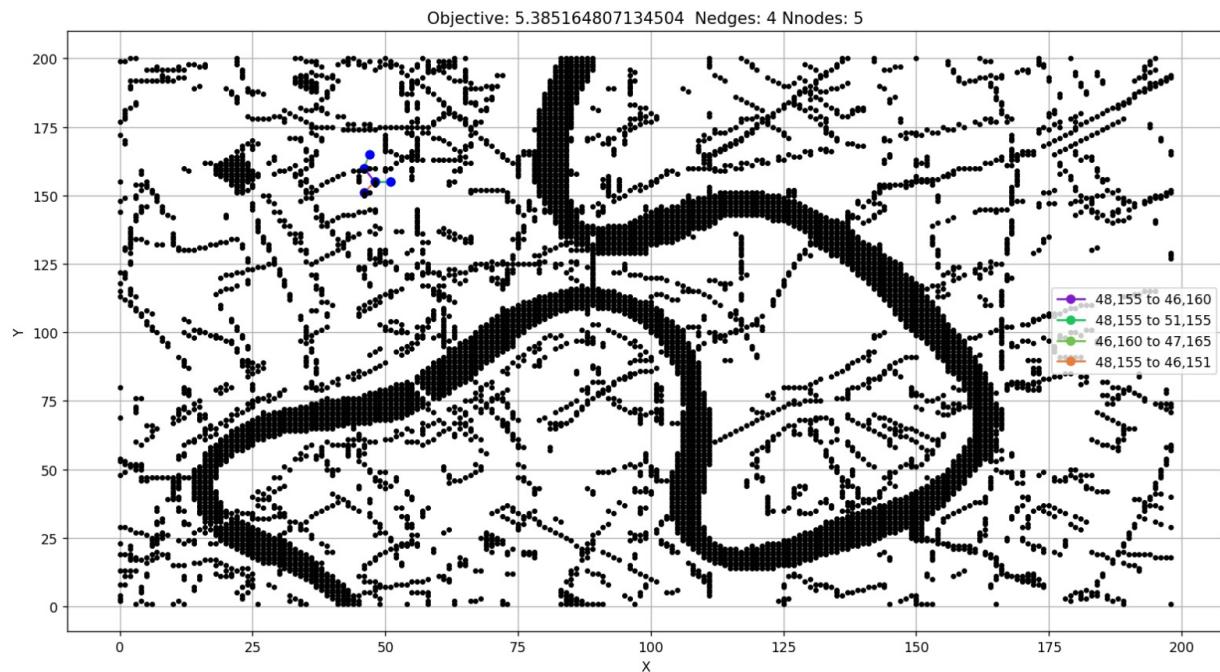
0

- Results



```
*****
T= 0.09897369929380173 Tinitial= 990.000000000001 valeur critere 18.35755975068582
Final Etat:
DimEtat= 10 Objective= 18.35755975068582 Graph= Nnodes= 10; Nedges= 11 Nodes= 73 3, 89
56, 60 1, 88 22, 75 1, 93 39, 92 33, 73 65, 87 9, 64 5,
COOLING LOOP END ...
Simulation time : 638 s
```

No filter leads to bad results:



- Inverting is worse

