Rapport du graphe

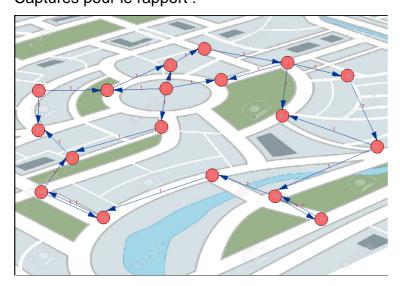
La taille du graphe : | V | = 18 L'ordre du graphe : | E | = 24 Type du graphe : Orienté

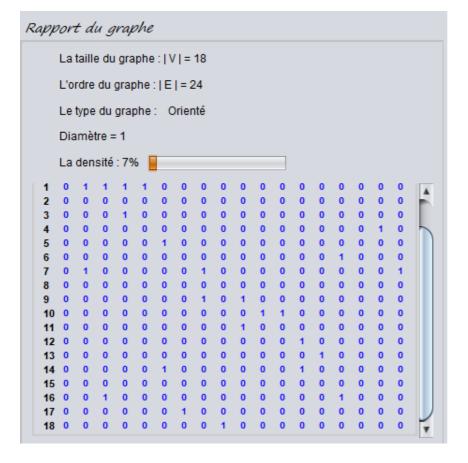
Diamètre = 1 La densité : 7%

La matrice d'adjascence :

0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0 0|0|0|1|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0 0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|1|0| 0|0|0|0|0|1|0|0|0|0|0|0|0|0|0|0|0|0 0|0|0|0|0|0|0|0|0|0|0|0|0|0|1|0|0|0| 0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0 0|0|0|0|0|0|1|0|1|0|0|0|0|0|0|0|0|0 0|0|0|0|0|0|0|0|0|1|1|0|0|0|0|0 0|0|0|0|0|0|0|0|0|1|0|0|0|0|0|0|0|0 0|0|0|0|0|0|0|0|0|0|0|0|1|0|0|0|0| 0|0|0|0|0|0|0|0|0|0|0|0|1|0|0|0|0 0|0|0|0|0|1|0|0|0|0|0|1|0|0|0|0|0 0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0|0 0|0|1|0|0|0|0|0|0|0|0|0|0|1|0|0|0| 0|0|0|0|0|1|0|0|0|0|0|0|0|0|0|0|0|0 0|0|0|0|0|0|0|1|0|0|0|0|0|0|0|0|0

Captures pour le rapport :





Application des algorthmes

1->117 1->127

Sommet de départ est : 1
[1 2 3 4 5 17 6 7 15 8 18 9 10 11 12 13 14]
Sommet de départ est : 1
[1 2 3 4 17 7 8 18 9 10 11 12 13 14 6 15 5]
Sommet de départ est : 1
Chemin Distance Source
1->10
1->21
1->31
1->41
1->51
1->62
1->73
1->84
1->95
1->106

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1->138
1->149
1->153
1->162147483647
1->172
1->184
|-----Dijikstra-----
  Sommet de départ est : 1
Chemin Distance Source
1->1 0
1->2 1
1->3 1
1->4 1
1->5 1
1->6 2
1->7 3
1->8 4
1->9 5
1->10 6
1->11 7
1->12 7
1->13 8
1->14 9
1->15 3
1->16 2147483647
1->17 2
1->18 4
|-----Floyd-Warshall------|
La matrice s'affiche les plus courts chemins entre 2 sommets :
                                       | 4 | 5 | 6 | 7
            1 |
                 1 |
                        1 |
                               2 |
                                     3
  7
               9
                     3 | INF |
                                  2 |
         8
                                        4
                  INF | INF | INF |
                                           INF | INF | INF |
            INF |
       INF | INF | INF | INF | INF |
INF |
                  1 | INF | 10 | 3 |
                                           4 | 5 | 6
            0 |
                      11 | INF |
                                   2 |
               9
                                         4
                                           INF |
      3 |
            INF |
                  0 |
                        INF | 9 |
                                     2 |
                                           3 | 4 | 5
                                                              6
                     10 |
                            INF | 1 | 3 |
                 INF |
            INF |
                 INF |
                                           INF |
                                                 INF | INF |
INF |
                        0 | 1
                                 INF |
                                                             INF |
 INF |
       INF |
              INF |
                    2 | INF | INF | INF |
                  INF | INF |
                                                       INF |
INF |
      INF |
            INF |
                              0 |
                                     INF |
                                           INF |
                                                 INF |
                                                             INF |
 INF |
       INF | INF | 1 | INF |
                                INF | INF |
INF | 1 | INF | INF | 7 |
                                     0 | 1 |
                                                 2
                                                        3
                                                              4
```

```
| 4 | 5 | 6 | 8 | INF | INF | 1 |
INF | INF | INF | INF | INF | INF | 0 | INF | INF |
 INF | INF | INF | INF | INF | INF |
         INF | INF | INF | 5 | INF | 1 |
    INF |
                                        0 | 1 |
| 2 | 3 | 4 | 6 | INF | INF | INF |
INF | INF | INF | INF | 4 | INF | INF |
                                        INF | 0 | 1 |
1 | 2 | 3 | 5 | INF | INF | INF |
INF | INF | INF | INF | 5 | INF | INF |
                                        INF | 1 | 0 |
 2 | 3 | 4 | 6 | INF | INF | INF |
INF | INF | INF | INF | 3 | INF | INF |
                                        INF | INF | INF |
 0 | 1 | 2 | 4 | INF | INF | INF |
INF | INF | INF | INF | 2 | INF | INF |
                                        INF | INF | INF |
 INF | 0 | 1 | 3 | INF | INF | INF |
INF | INF | INF | INF | 1 | INF |
                                        INF | INF |
                                                  INF I
                                   INF |
 INF | 1 | 0 | 2 | INF | INF | INF |
    INF | INF | INF | INF | INF | INF | INF | INF | INF |
INF | INF | INF | 0 | INF | INF | INF |
    5 | 1 | 2 | INF | 11 | 4 | 5 | 6 | 7 | 8
INF |
| 8 | 9 | 10 | 1 | 0 | 3 | 5 |
INF | 2 | INF | INF | 8 | 1 | 2 | 3 | 4 |
                                                   5
| 5 | 6
         | 7 | 9 | INF | 0 | 2 |
INF | INF | INF | INF | 6 | INF | 2 | 1 | 2
                                                  3
| 3 | 4 | 5 | 7 | INF | INF | 0 |
```

Historique des algorthmes

|-----BFS------|

Sommet de départ est : 1

[1 5 2 4 6 8 9 3 12 13 16 7 10 30 14 15 21 17 11 31 19 20 18 22 23 24 25 28 29 26 27]

|-----Prim------|

Arrêtes Côuts

-1-: 5-2 1

-2-: 4-3 1

-3-: 5-4 1

-4-: 1-5 1

-5-: 5-6 1

-6-: 6-7 1

-7-: 5-8 1

-8-: 5-9 1

-9-: 6-10 1

-10-: 7-11 1

```
-11-: 4-12 1
-12-: 4 - 13 1
-13-: 13 - 14 1
-14-: 13 - 15 1
-15-: 4 - 16 1
-16- : 16 - 17
-17- : 15 - 18
-18- : 14 - 19
-19- : 14 - 20
-20-: 13 - 21
-21-: 31 - 22
-22- : 22 - 23
-23- : 23 - 24
-24- : 23 - 25
-25- : 25 - 26
-26-: 26 - 27 1
-27- : 24 - 28
-28-: 24 - 29 1
-29-: 3 - 30 1
-30-: 30 - 31 1
=> ACM = 30
|-----BFS------|
  Sommet de départ est : 2
[2]
|-----|
  Sommet de départ est : 1
```

[1 2 3 4 17 7 8 18 9 10 11 12 13 14 6 15 5]