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CASOS DE PRUEBA

Actividad 3.2b Implementación de "Dijkstra and Floyd"

Complejidad : Descrita como comentarios en cada una de las funciones del código

Para compilar:

```
g++ -std=c++11 main.cpp -o app
```

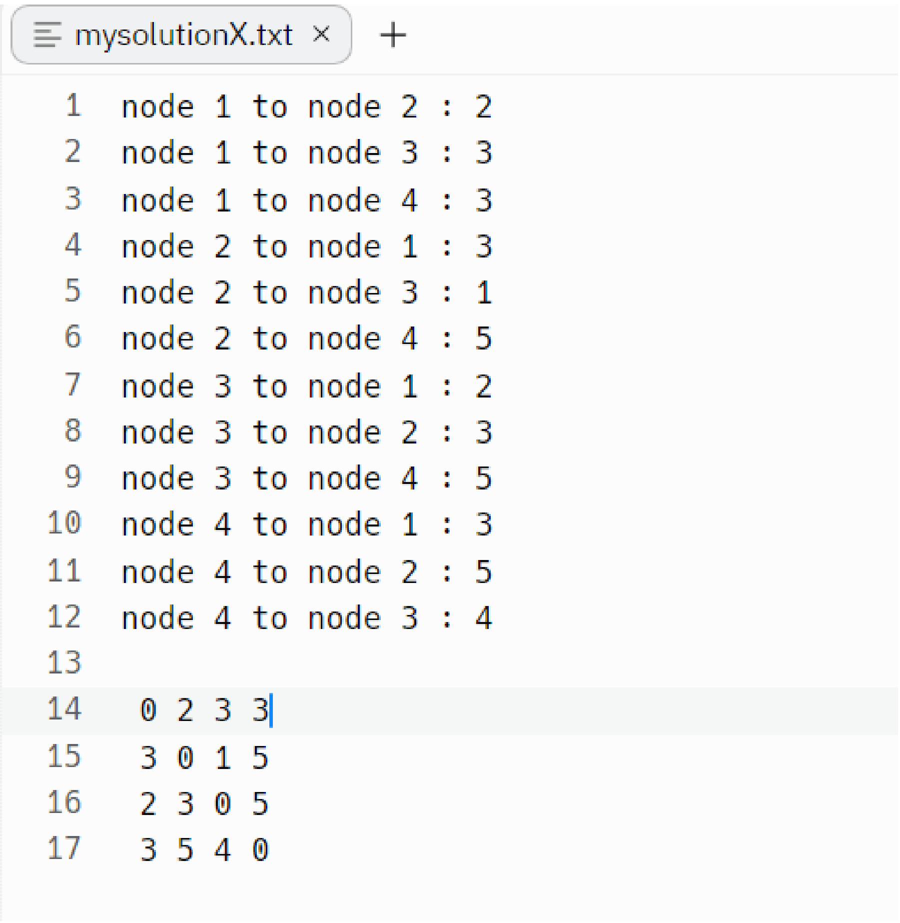
Para ejecutar:

```
./app < inputX.txt > mysolutionX.txt
```

Pruebas algoritmo

```
4
0 2 -1 3
-1 0 1 5
2 3 0 -1
3 -1 4 0
```

Resultado:

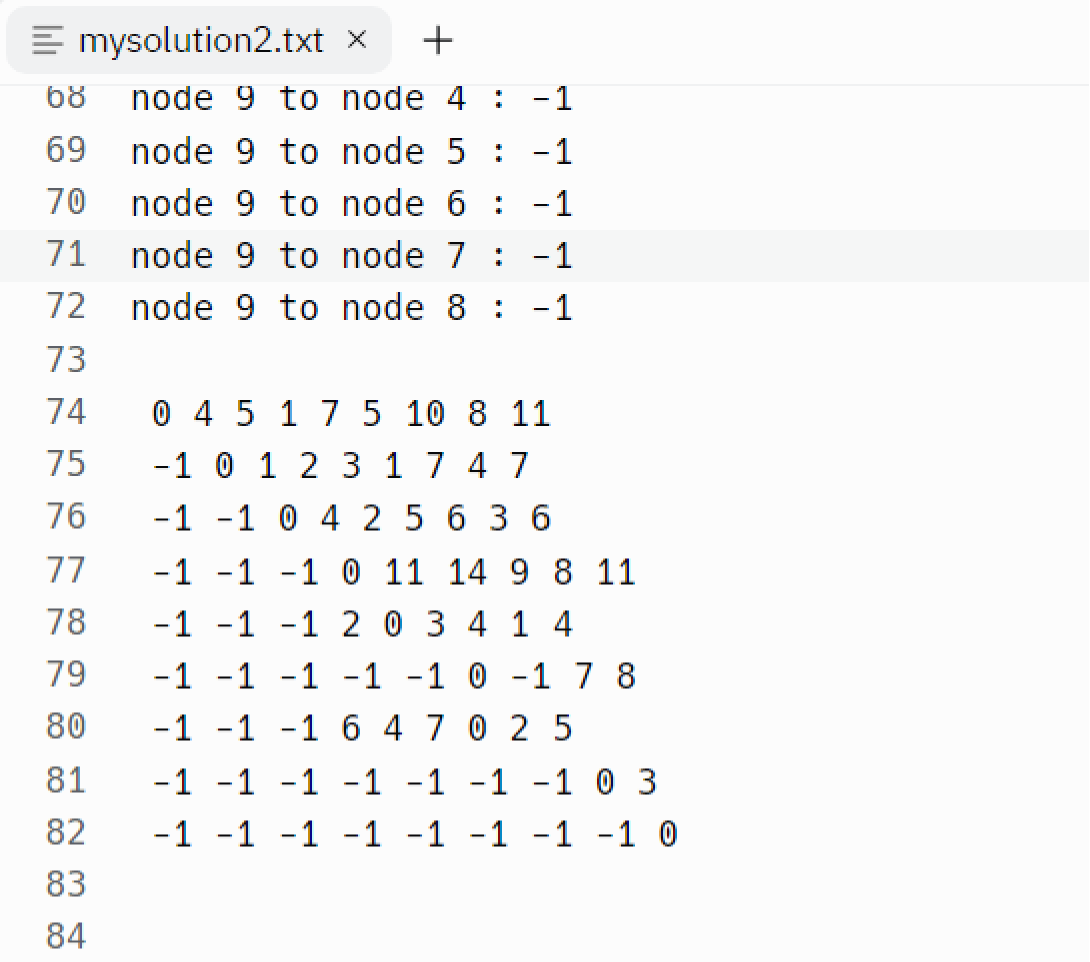


```
node 1 to node 2 : 2
node 1 to node 3 : 3
node 1 to node 4 : 3
node 2 to node 1 : 3
node 2 to node 3 : 1
node 2 to node 4 : 5
node 3 to node 1 : 2
node 3 to node 2 : 3
node 3 to node 4 : 5
node 4 to node 1 : 3
node 4 to node 2 : 5
node 4 to node 3 : 4

 0 2 3 3
 3 0 1 5
 2 3 0 5
 3 5 4 0
```

```
9
0 4 -1 1 8 -1 -1 -1 -1
-1 0 1 2 6 1 -1 -1 -1
-1 -1 0 -1 2 5 -1 -1 -1
-1 -1 -1 0 11 -1 9 8 -1
-1 -1 -1 2 0 3 4 1 8
-1 -1 -1 -1 -1 0 -1 7 8
-1 -1 -1 -1 4 -1 0 2 -1
-1 -1 -1 -1 -1 -1 -1 0 3
-1 -1 -1 -1 -1 -1 -1 -1 0
```

Resultado:

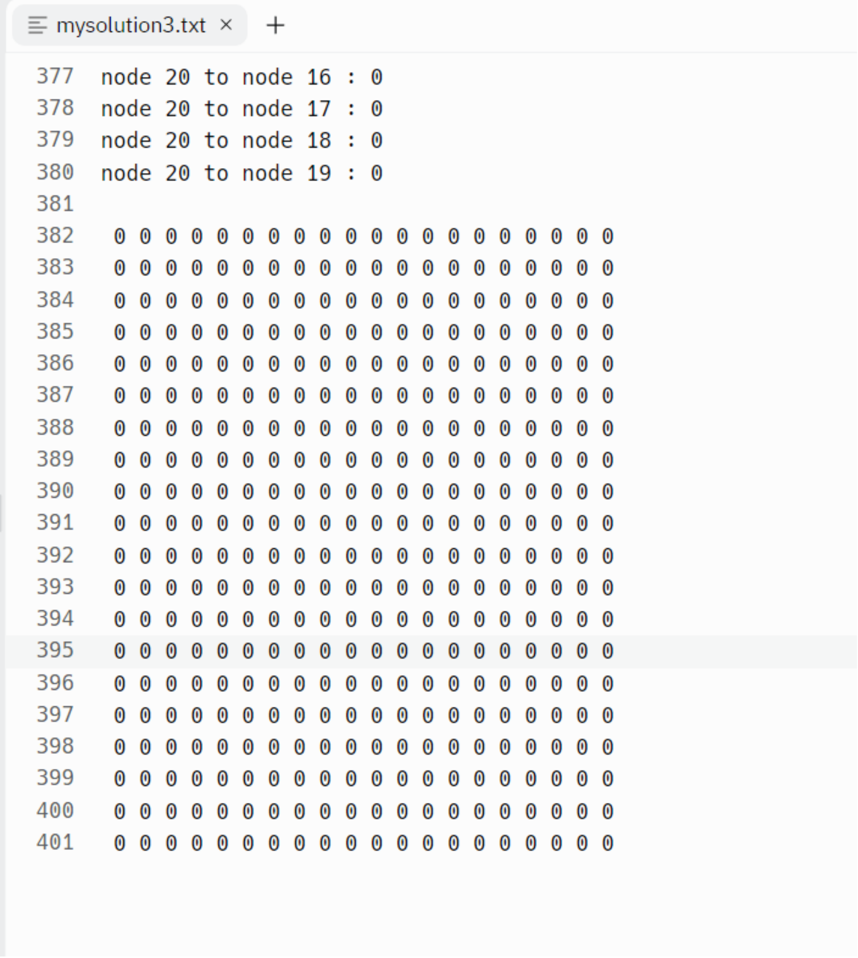


```
node 9 to node 4 : -1
node 9 to node 5 : -1
node 9 to node 6 : -1
node 9 to node 7 : -1
node 9 to node 8 : -1

 0 4 5 1 7 5 10 8 11
 -1 0 1 2 3 1 7 4 7
 -1 -1 0 4 2 5 6 3 6
 -1 -1 -1 0 11 14 9 8 11
 -1 -1 -1 2 0 3 4 1 4
 -1 -1 -1 -1 -1 0 -1 7 8
 -1 -1 -1 6 4 7 0 2 5
 -1 -1 -1 -1 -1 -1 -1 0 3
 -1 -1 -1 -1 -1 -1 -1 -1 0
```

```
20
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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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
```

Resultado

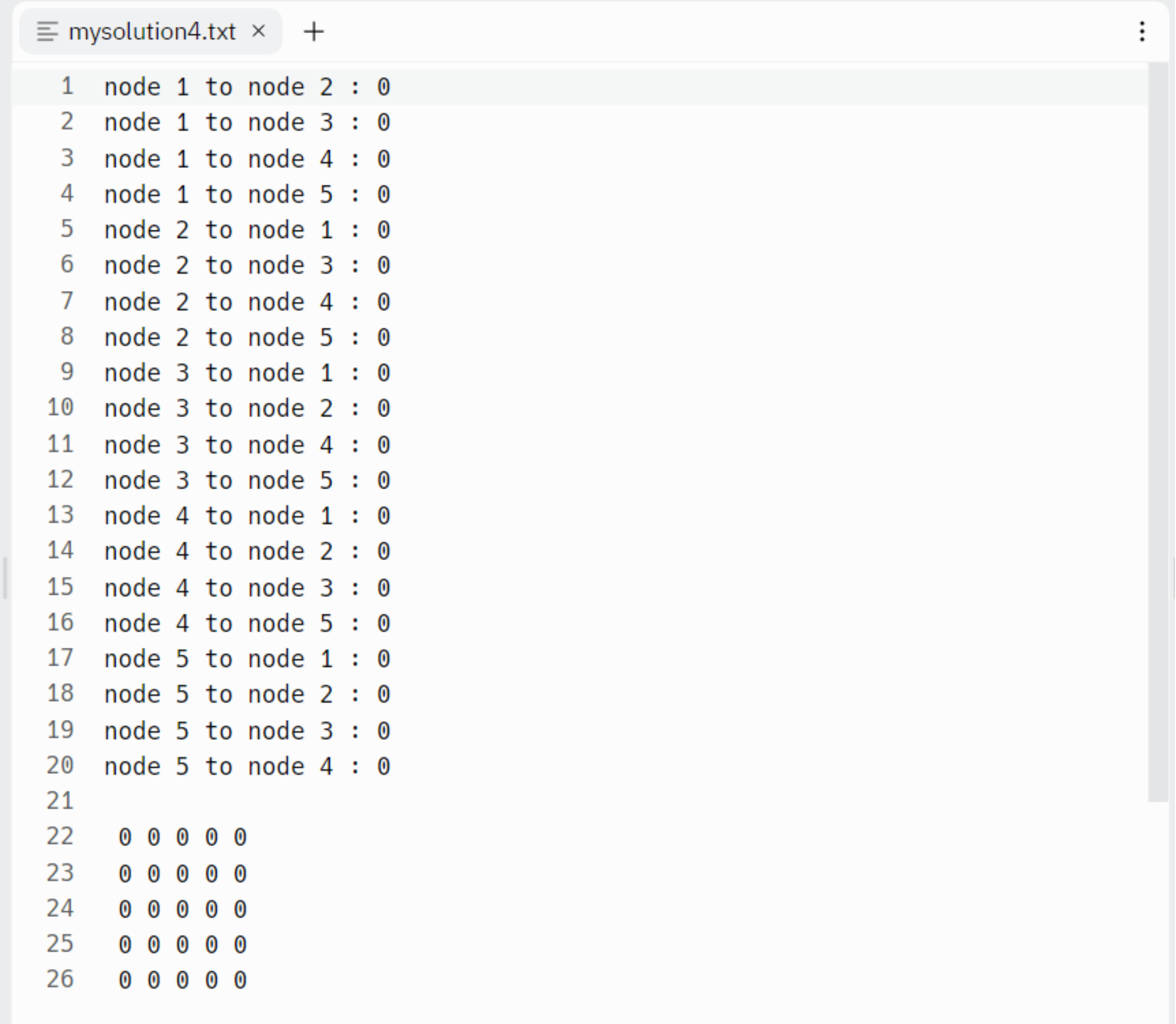


```
node 20 to node 16 : 0
node 20 to node 17 : 0
node 20 to node 18 : 0
node 20 to node 19 : 0

 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 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 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 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 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 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 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 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 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 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 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
 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 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
```

```
5
-1, -1, -1, -1, -1
-1, -1, -1, -1, -1
-1, -1, -1, -1, -1
-1, -1, -1, -1, -1
-1, -1, -1, -1, -1
```

Resultado:



```
node 1 to node 2 : 0
node 1 to node 3 : 0
node 1 to node 4 : 0
node 1 to node 5 : 0
node 2 to node 1 : 0
node 2 to node 3 : 0
node 2 to node 4 : 0
node 2 to node 5 : 0
node 3 to node 1 : 0
node 3 to node 2 : 0
node 3 to node 4 : 0
node 3 to node 5 : 0
node 4 to node 1 : 0
node 4 to node 2 : 0
node 4 to node 3 : 0
node 4 to node 5 : 0
node 5 to node 1 : 0
node 5 to node 2 : 0
node 5 to node 3 : 0
node 5 to node 4 : 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
```