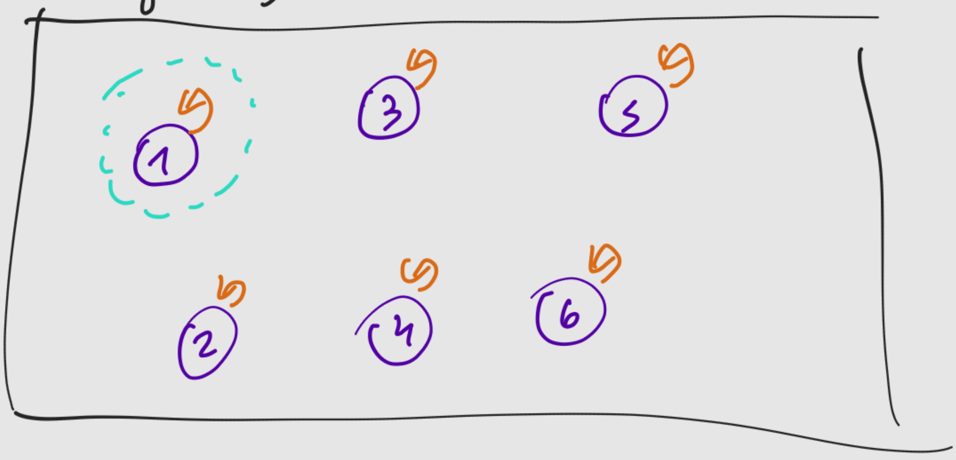
5 4

RUIM

1 1

Union Find (6) ⇝ Constructor

Conjuntos



① ⇝ G_1

② ⇝ G_2

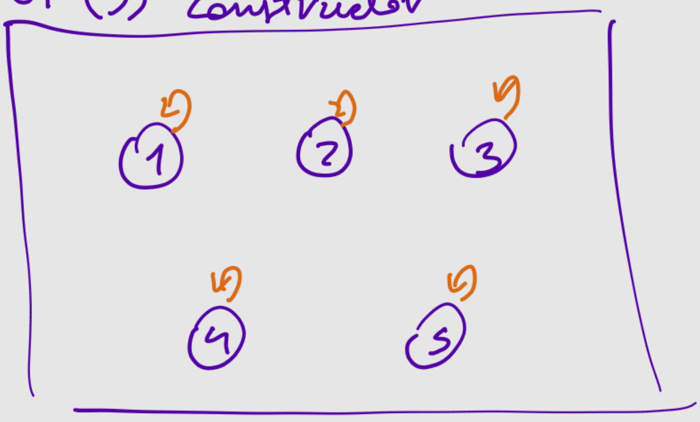
③ ⇝ G_3

⋮

Find(1) ⇝ {conjuntos[1] == 1 ?} V

5	4	
1	2	✓
2	3	✓
3	1	
4	5	

UF(5) constructor



representante

① ← G_1

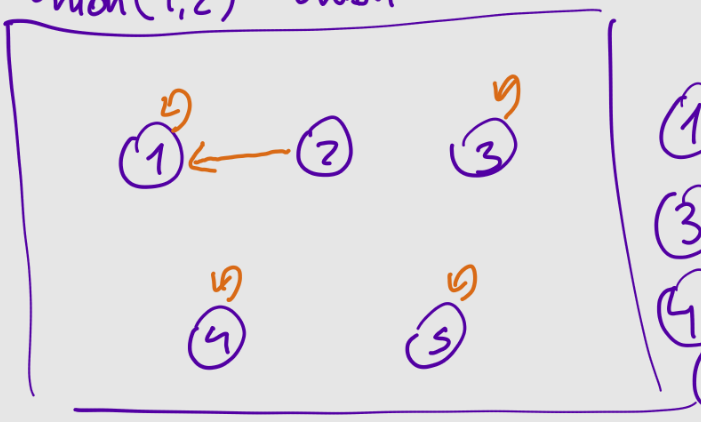
② ← G_2

③ ← G_3

④ ← G_4

⑤ ← G_5

Union(1,2) Union uno



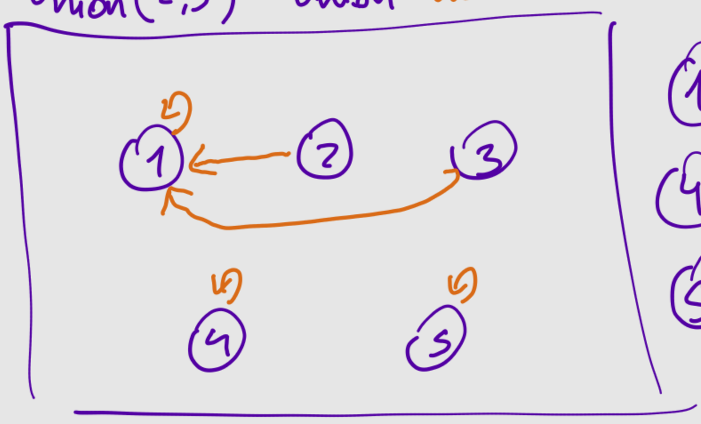
① ← G_1

③ ← G_3

④ ← G_4

⑤ ← G_5

Union(2,3) Union uno

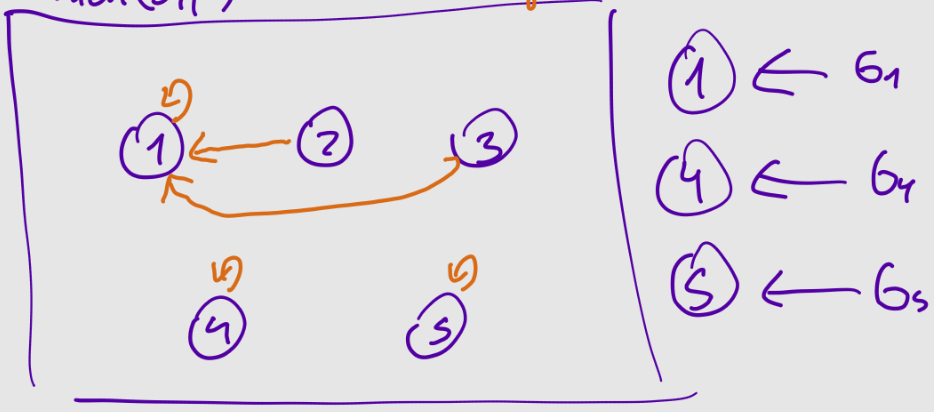


① ← G_1

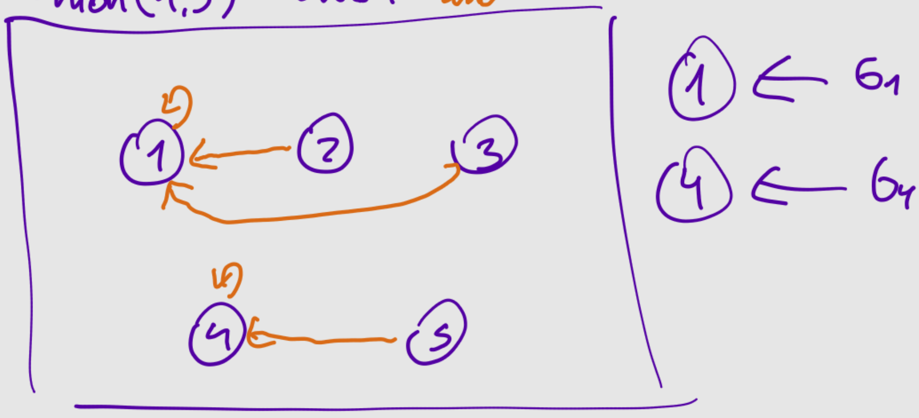
④ ← G_4

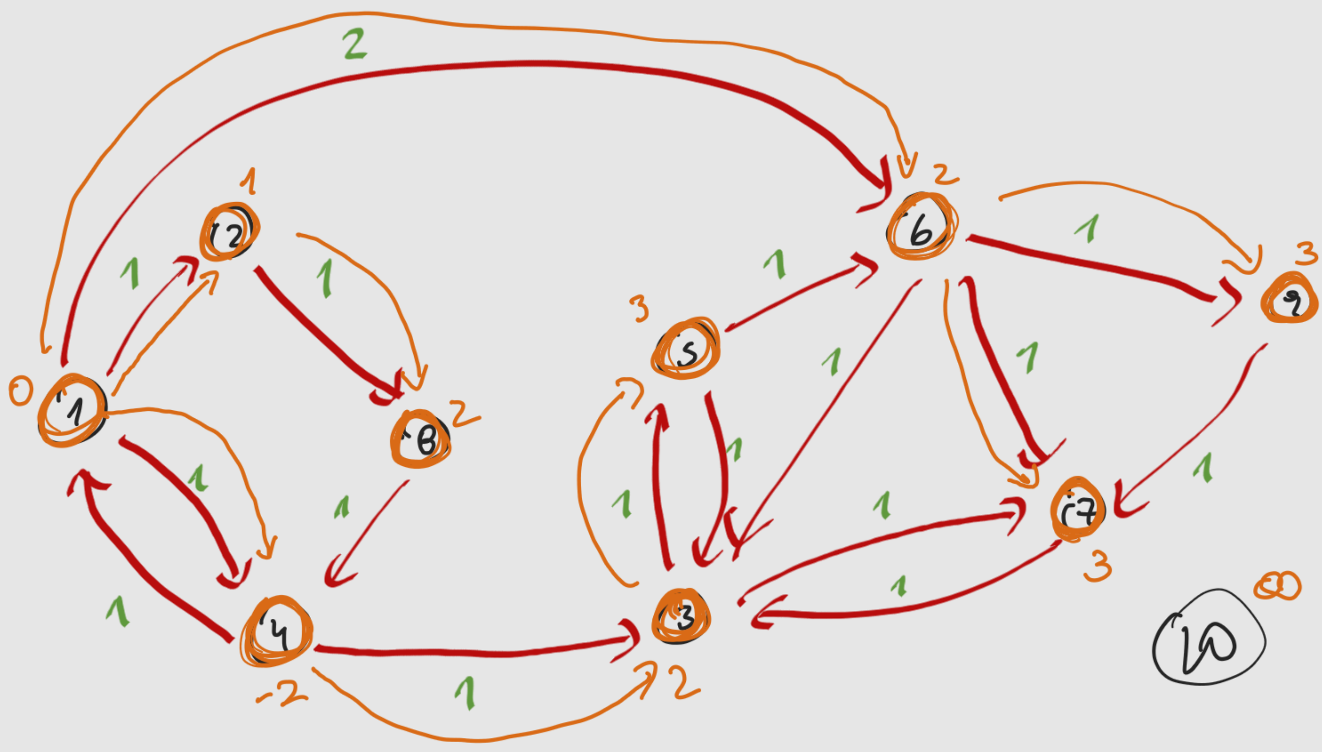
⑤ ← G_5

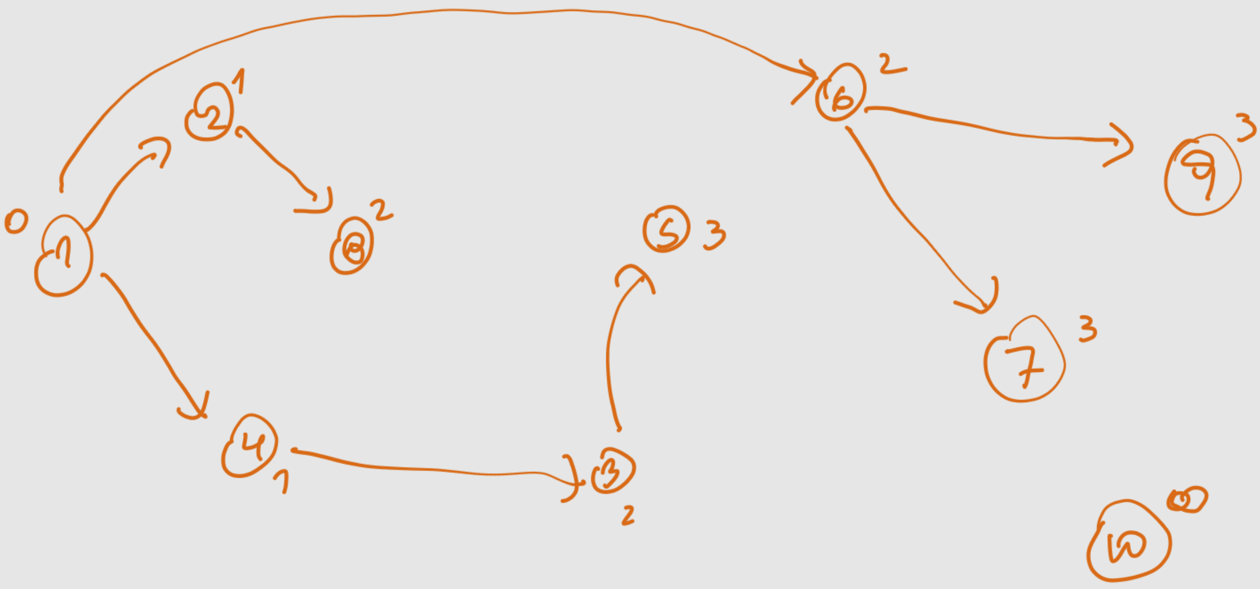
Union(3,1) Union No hago nada

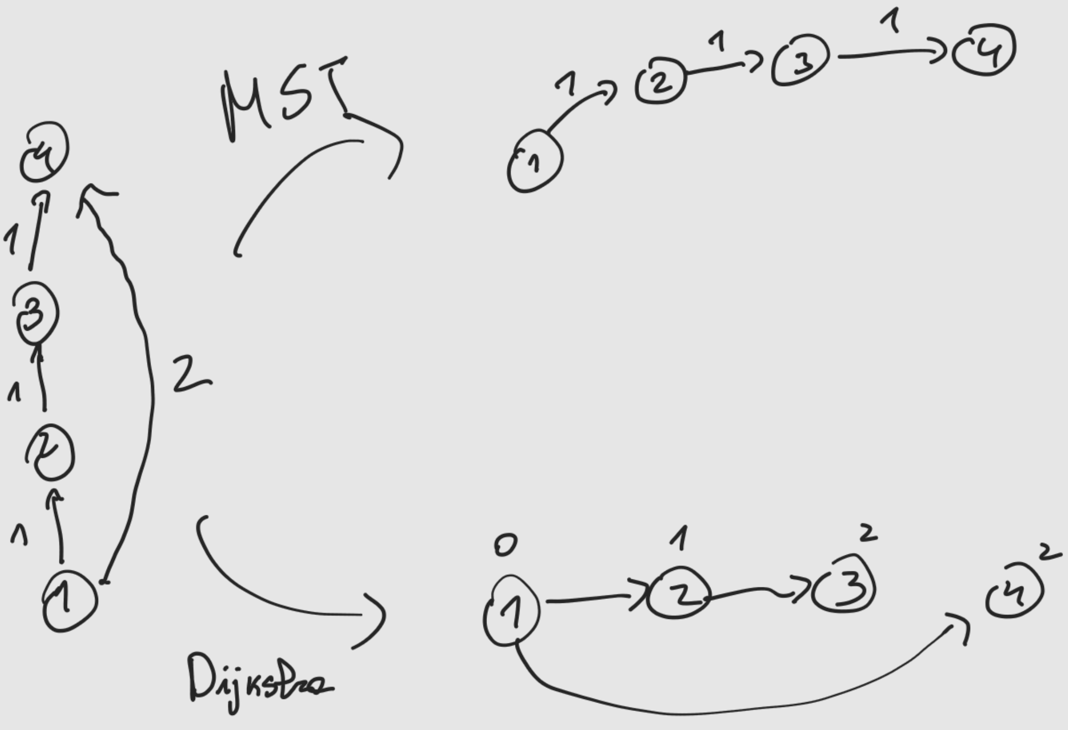


Union(4,5) Union uno









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5 6

1 2 3

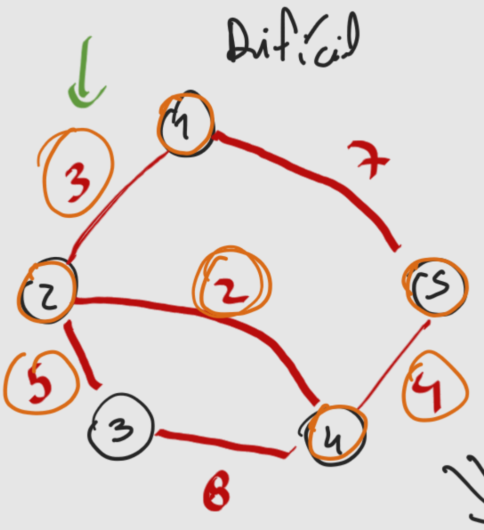
2 3 5

2 4 2

3 4 8

5 1 7

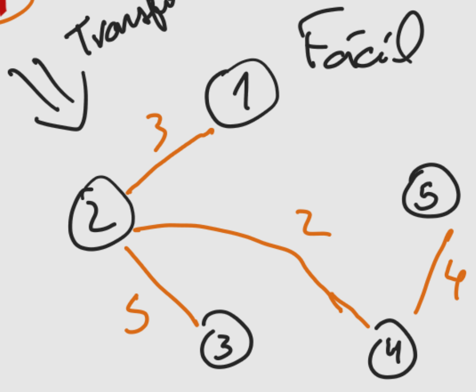
5 4 4

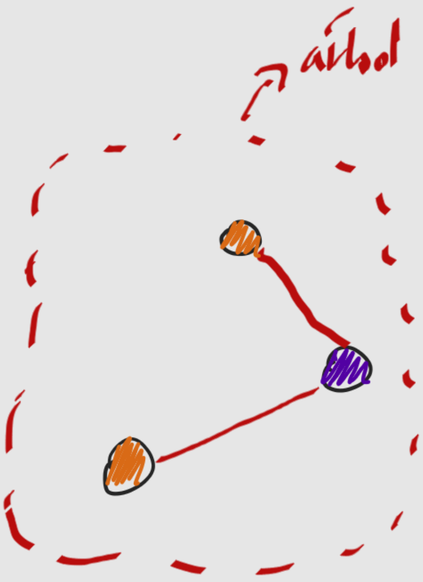


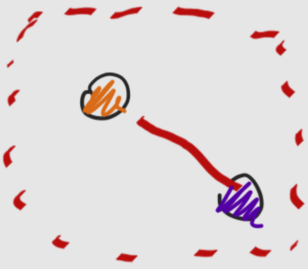
3+2+4+5=14

(1,2) (1,2,4) (1,2,4,5) (1,2,3,4,5)

Transformando

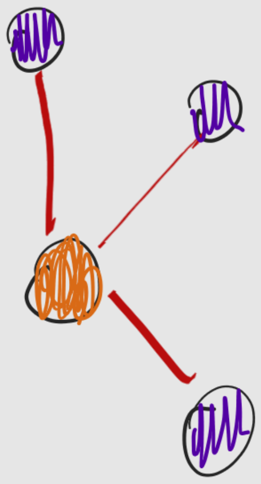






$\min(4, 2)$

$\min(2, 0)$



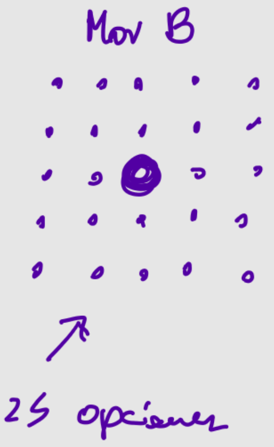
$\min(1, 3)$

	1	2	3	4
1	0	0	#	0
2	0	0	#	0
3	0	#	0	0
4	0	#	0	0

○ mago

○ salida

1 Mov



Si ○ y ○ están en la misma componente conexa la respuesta es 0.