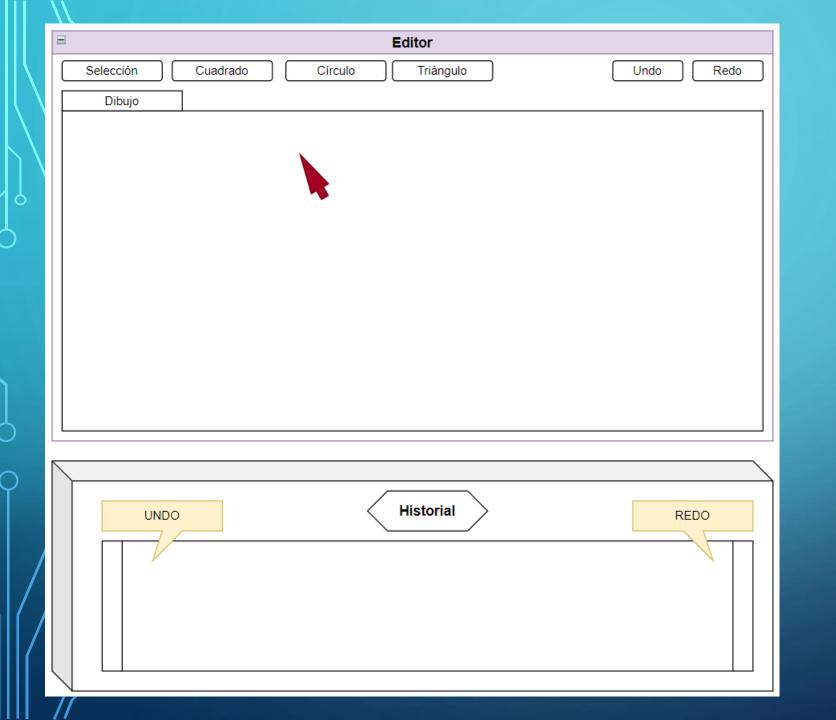
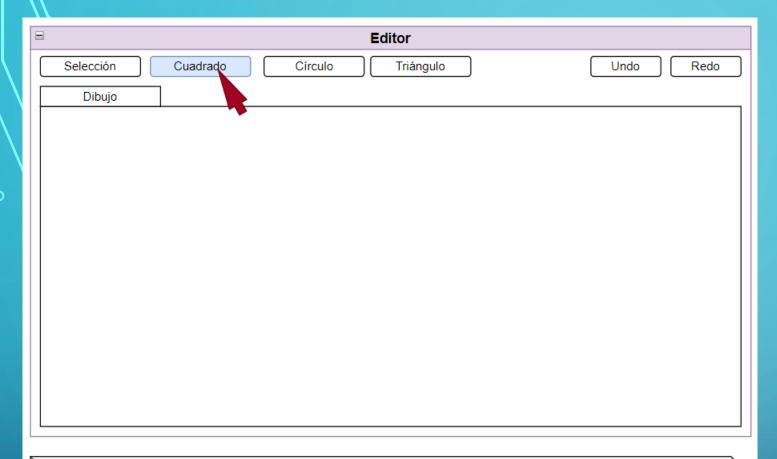
# CLASE 5 EDITOR CON "UNDO" Y "REDO"





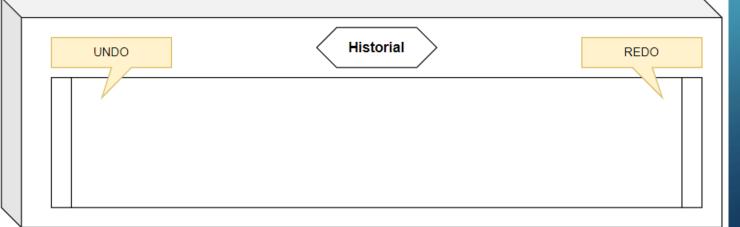
# cuadrado pinchar 10,10

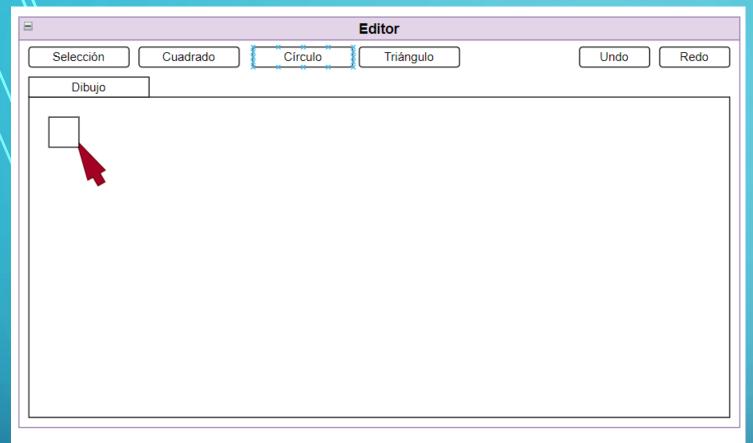
circulo

pinchar 100,100

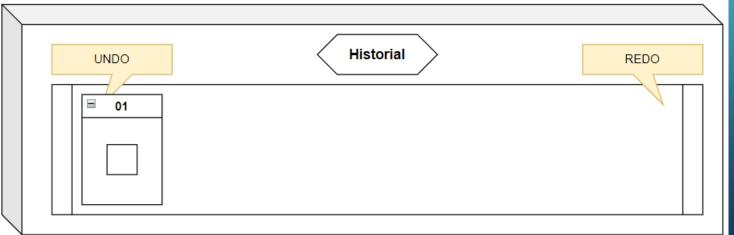
soltar 200,200

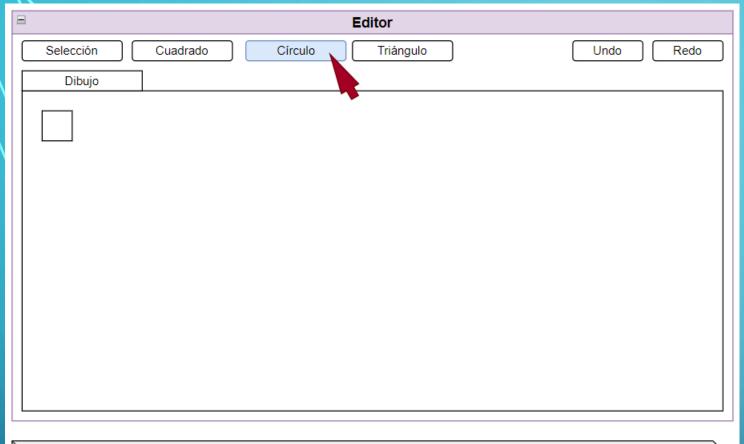
dibujar // Hay 2 figuras



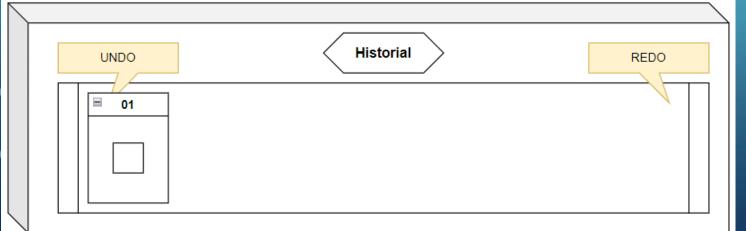


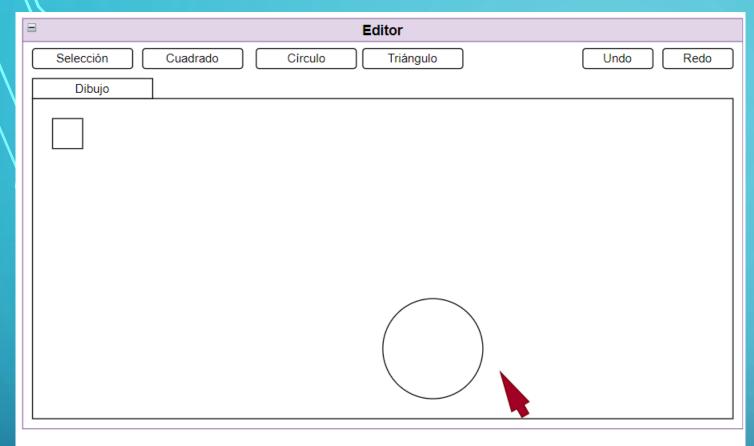
cuadrado
pinchar 10,10
soltar 20,20
circulo
pinchar 100,100
soltar 200,200
dibujar // Hay 2 figuras



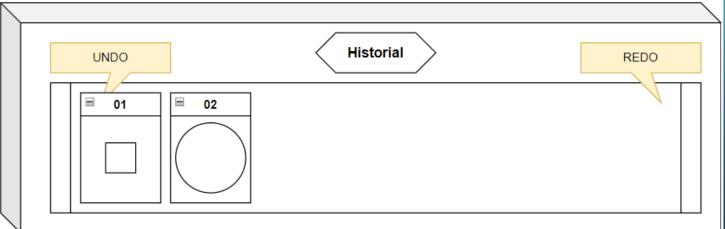


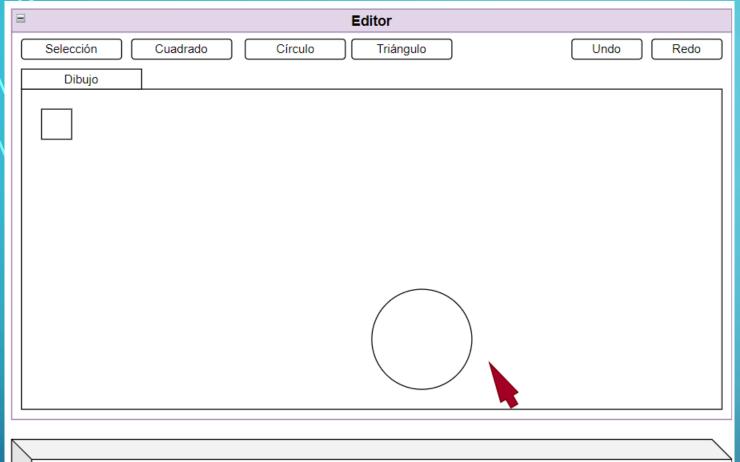
cuadrado
pinchar 10,10
soltar 20,20
circulo
pinchar 100,100
soltar 200,200
dibujar // Hay 2 figuras

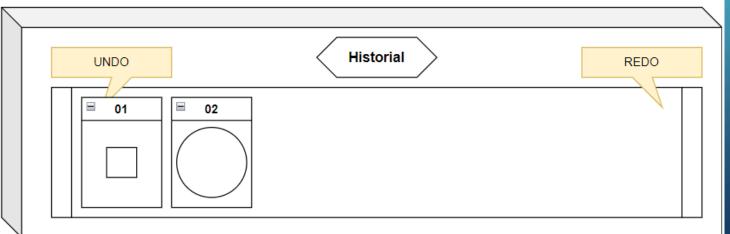




pinchar 10,10
soltar 20,20
circulo
pinchar 100,100
soltar 200,200
dibujar // Hay 2 figuras

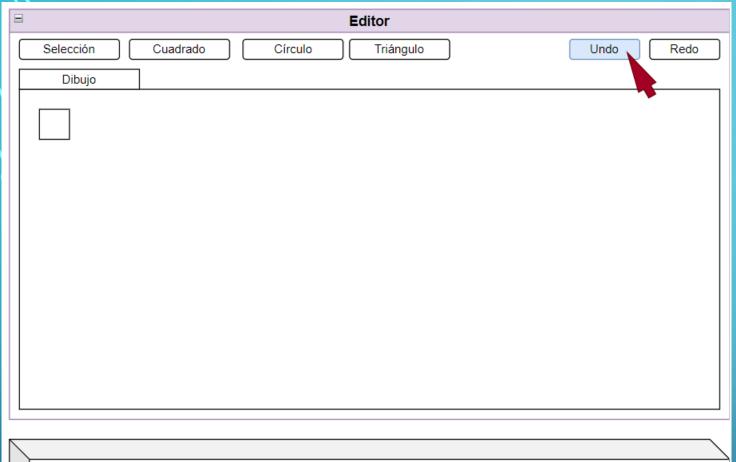


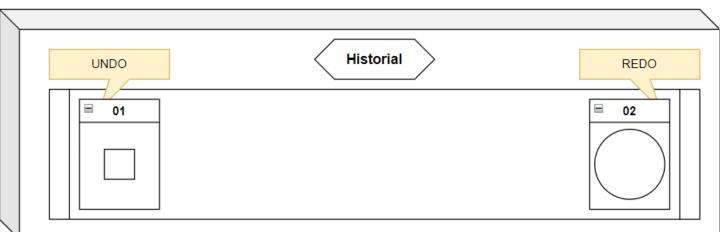




```
dibujar // dibujo vacío
dibujar // Hay 1 figura
redo
```

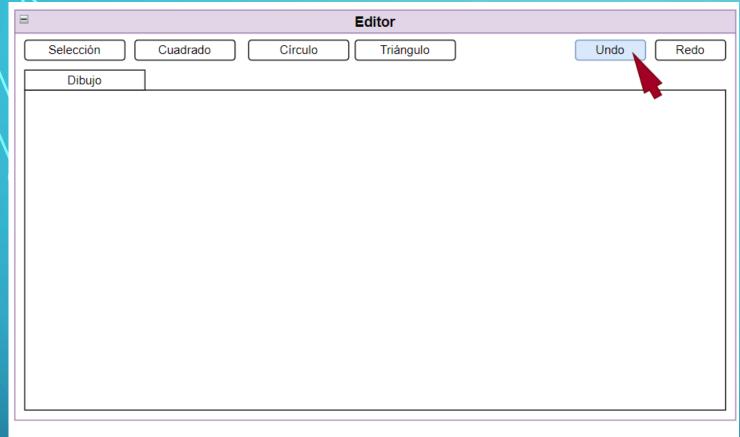
dibujar // Hay 2 figuras

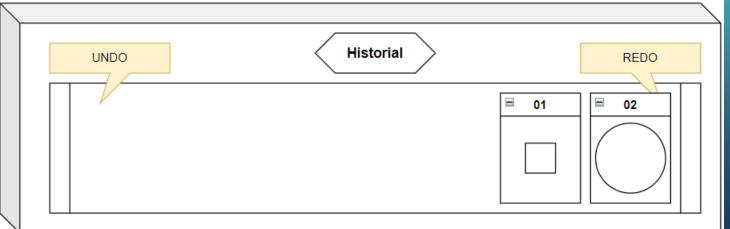




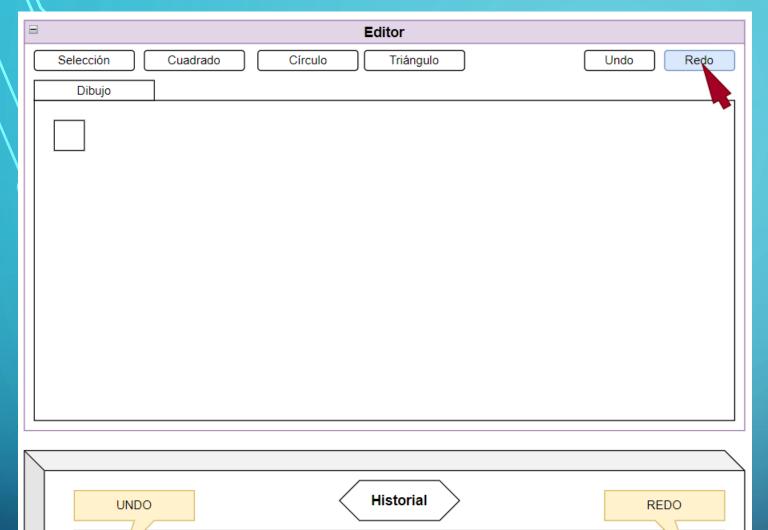
undo dibujar dibujar // dibujo vacío dibujar // Hay 1 figura redo

dibujar // Hay 2 figuras





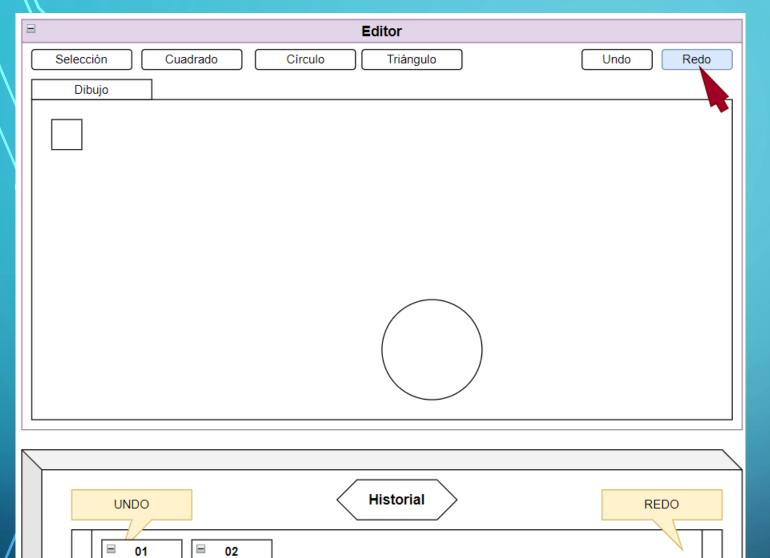
```
undo
dibujar
undo
dibujar // dibujo vacío
dibujar // Hay 1 figura
redo
dibujar // Hay 2 figuras
```



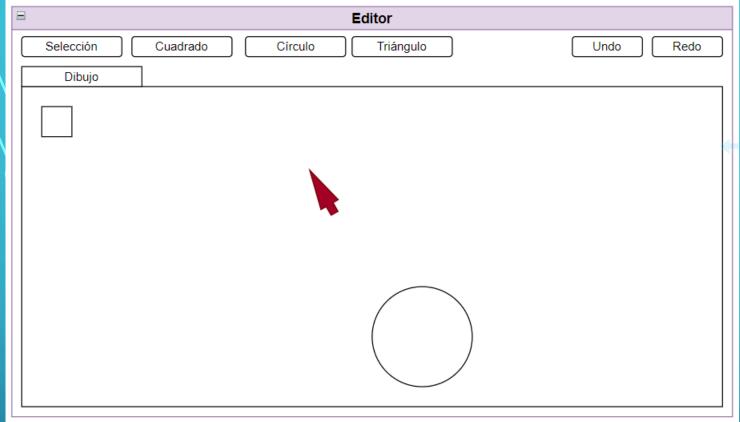
02

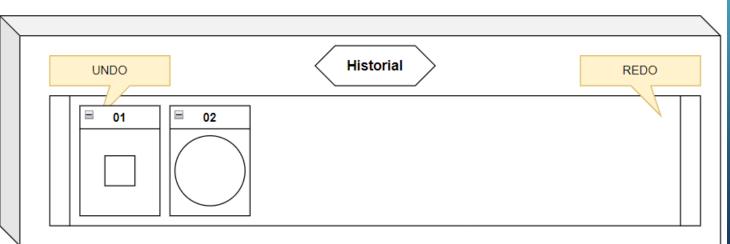
01

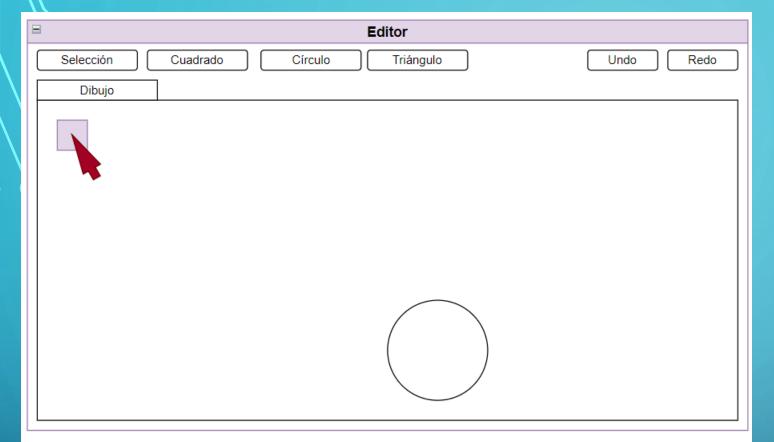
undo dibujar undo dibujar // dibujo vacío redo dibujar // Hay 1 figura redo dibujar // Hay 2 figuras

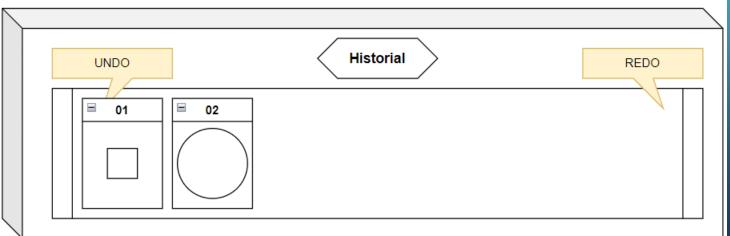


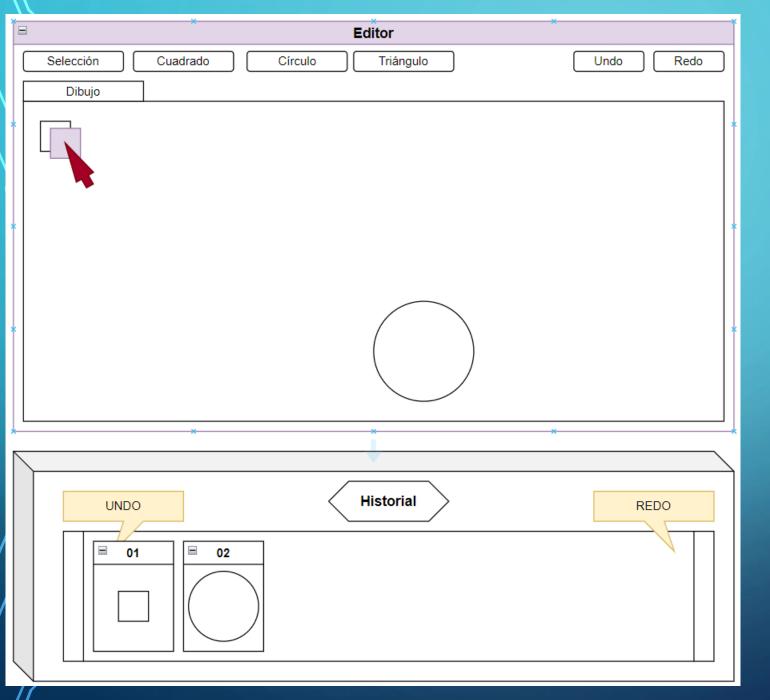
```
undo
dibujar
undo
dibujar // dibujo vacío
redo
dibujar // Hay 1 figura
redo
dibujar // Hay 2 figuras
```

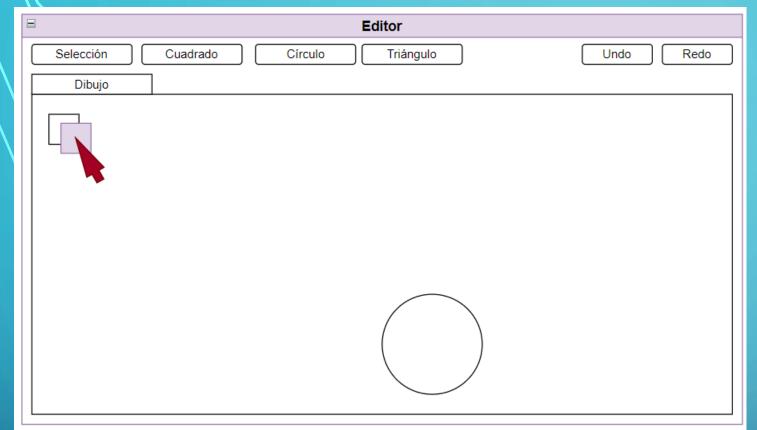


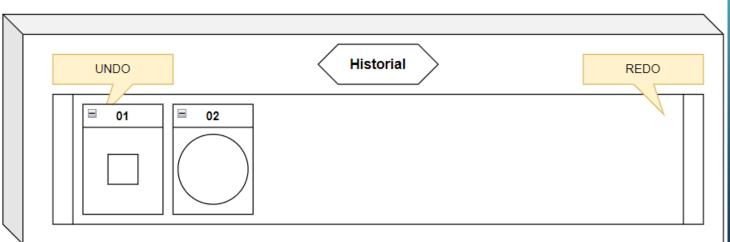


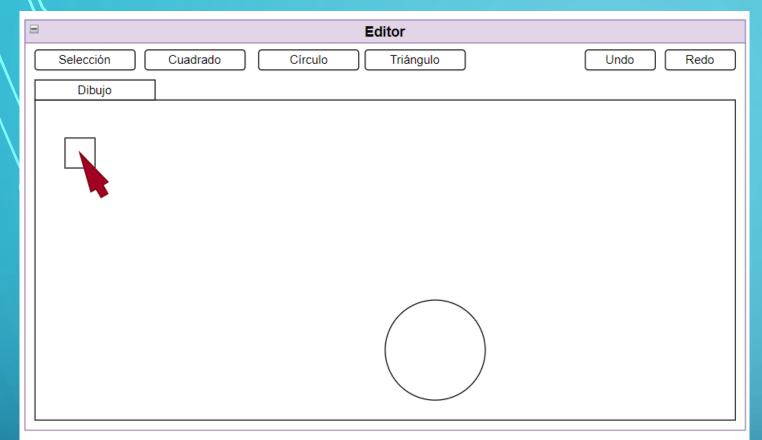


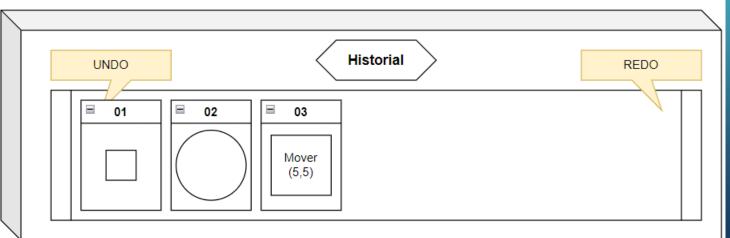


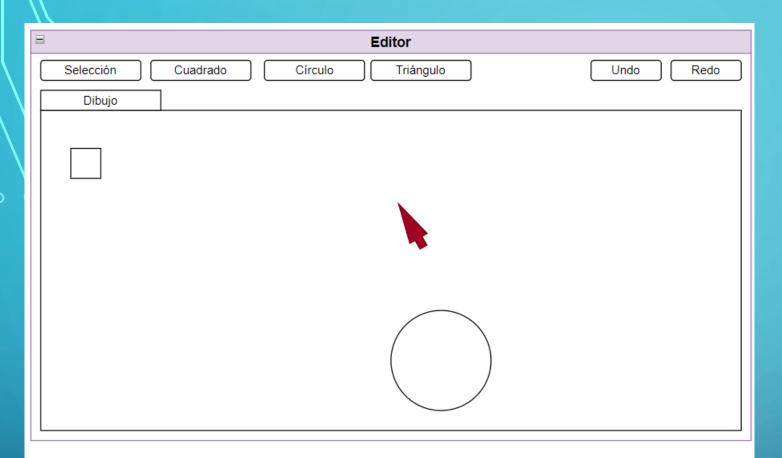




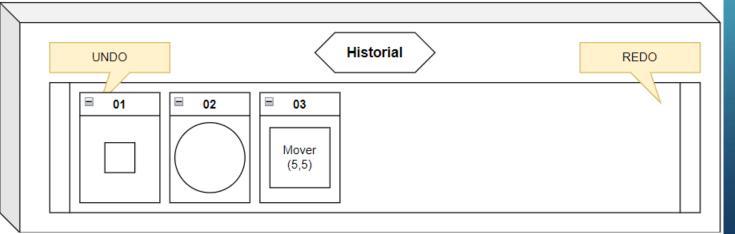


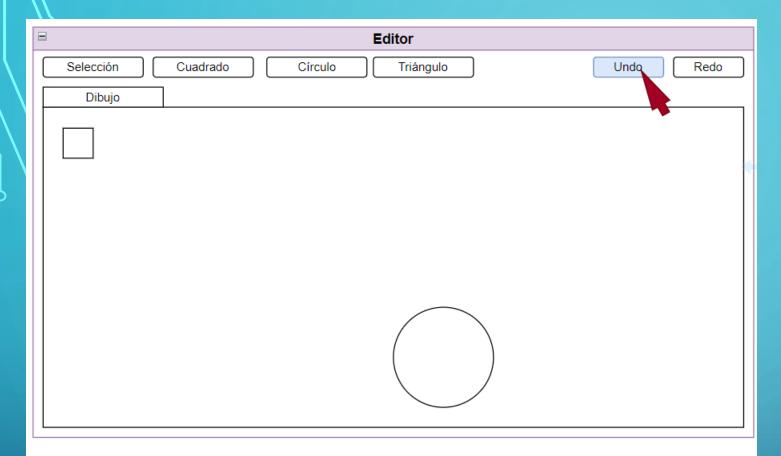






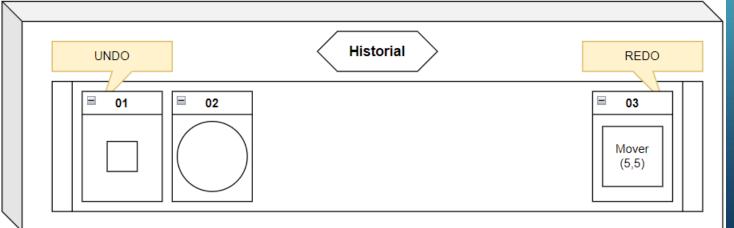
dibujar (dibujar (dib

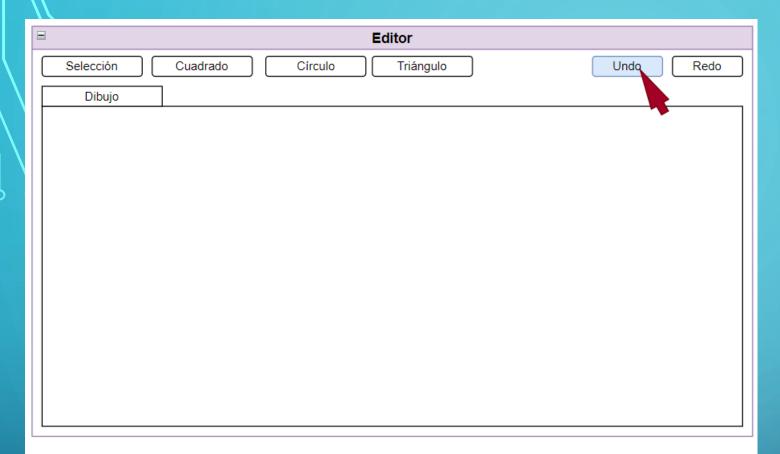




undo // qué se ha deshecho?
dibujar

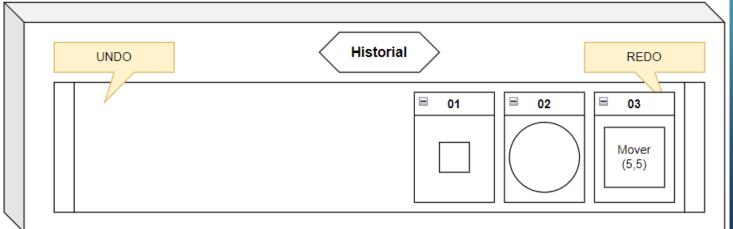
undo
undo
dibujar // Dibujo limpio

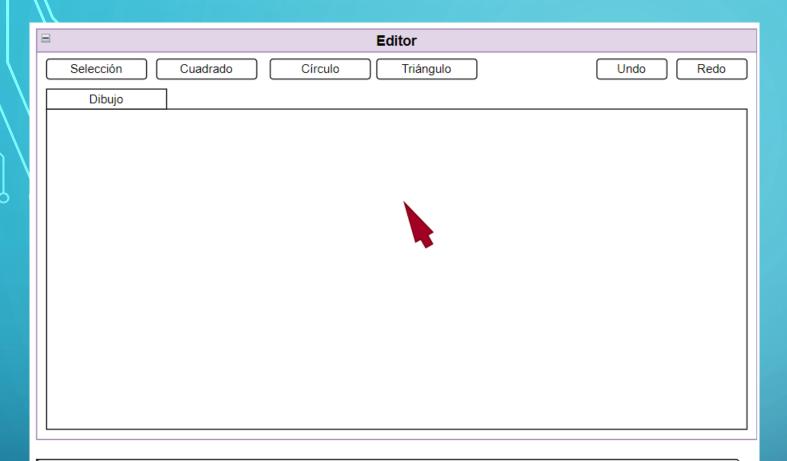




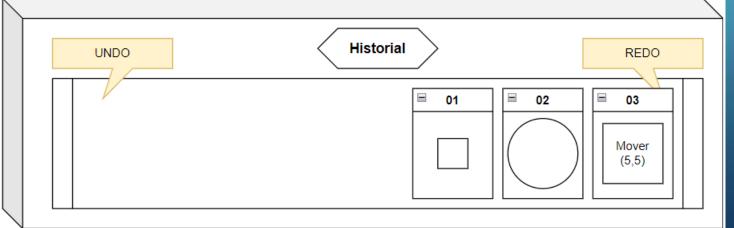
```
undo // qué se ha deshecho?
dibujar

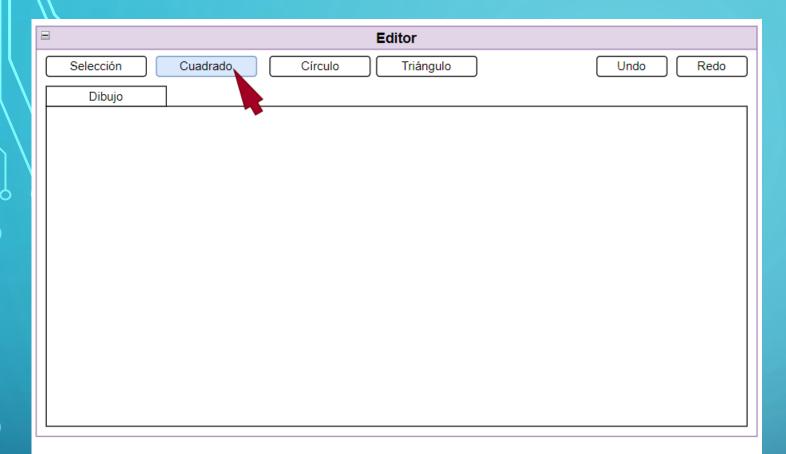
undo
undo
dibujar // Dibujo limpio
```



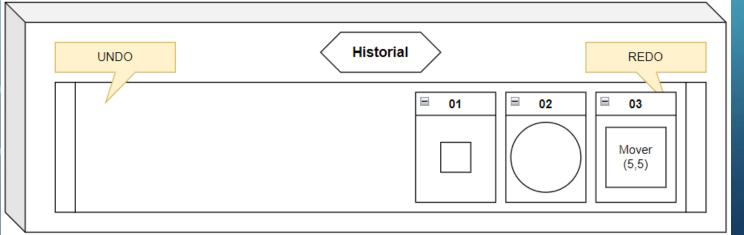


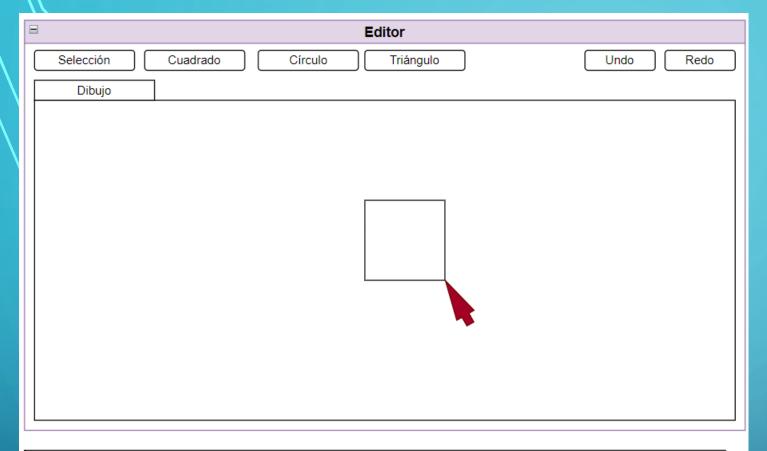
redo // 1



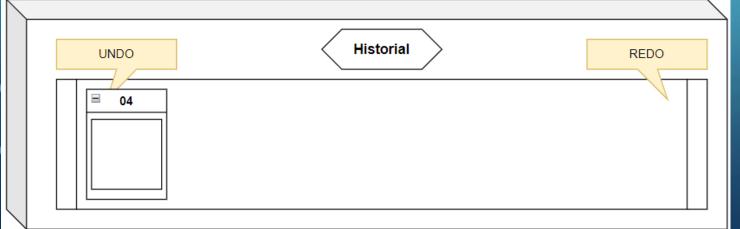


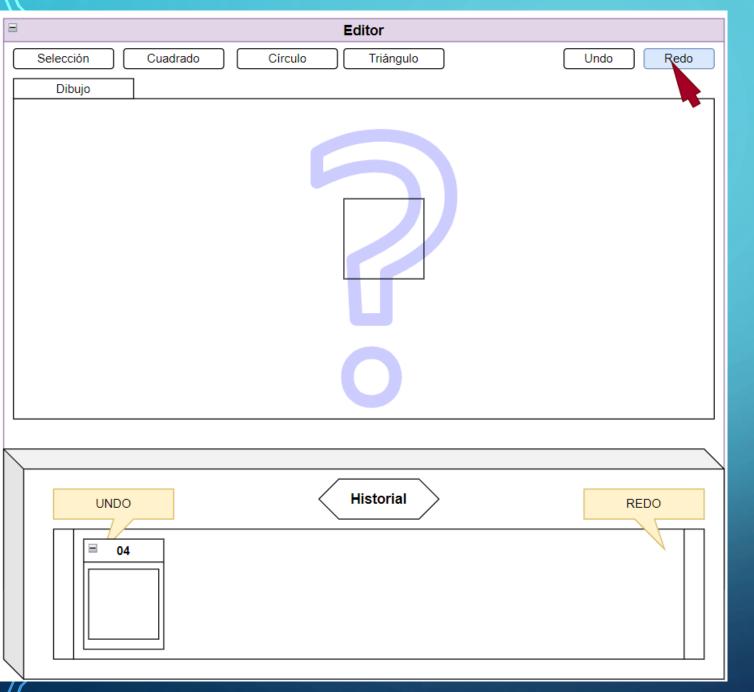
redo // 🥽





redo // 1





redo // ?

• ¿Cómo planteamos la implementación?

• ¿qué objeto va a guardar el historial de cambios?

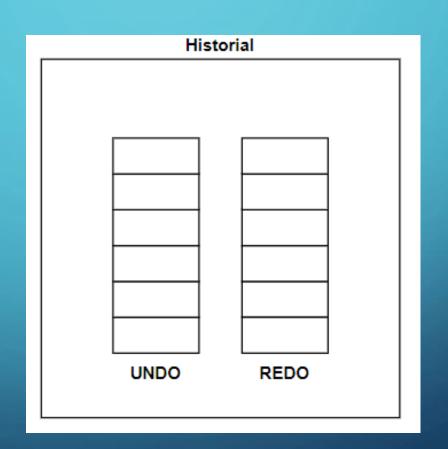
• ¿qué objeto va a guardar el historial de cambios?

Historial

\*/żqué estructura le ponemos?

• ¿qué estructura le ponemos?

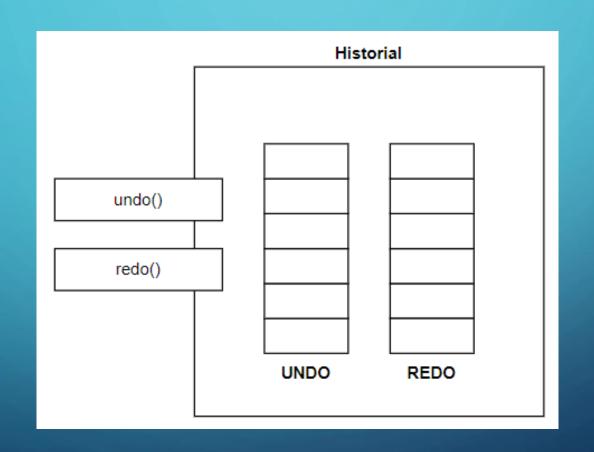
### IMPLEMENTACIÓN



•/¿qué métodos lleva?

• żqué métodos lleva?

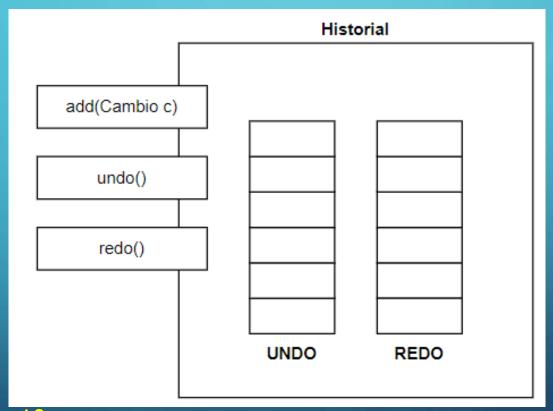
#### IMPLEMENTACIÓN



•/żalgún método más?

• żalgún método más?

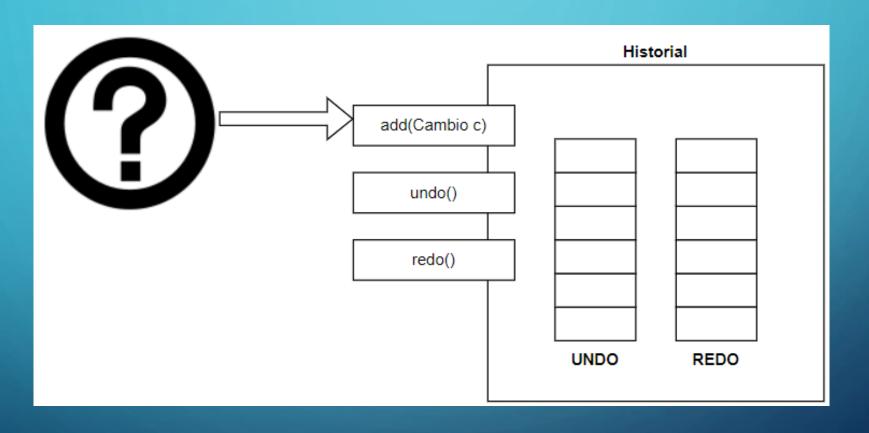
#### IMPLEMENTACIÓN



•/żqué hace add(Cambio c)?

#### • ¿qué hace add(Cambio c)?

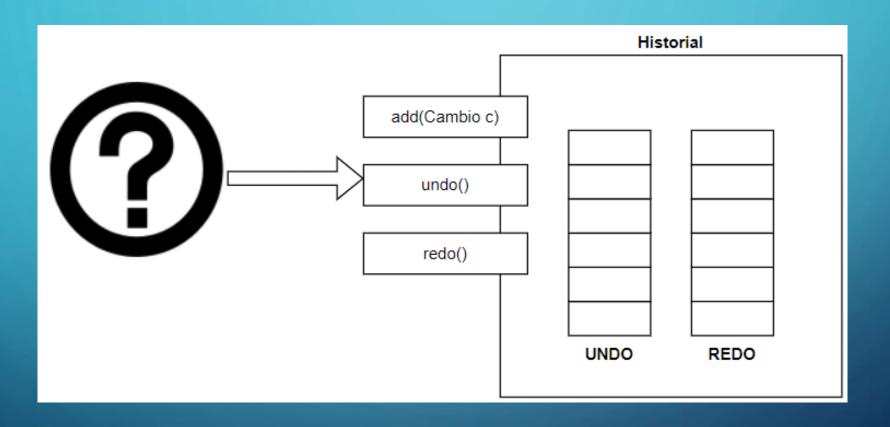
#### IMPLEMENTACIÓN



•/żqué hace undo()?

• ¿qué hace redo()?

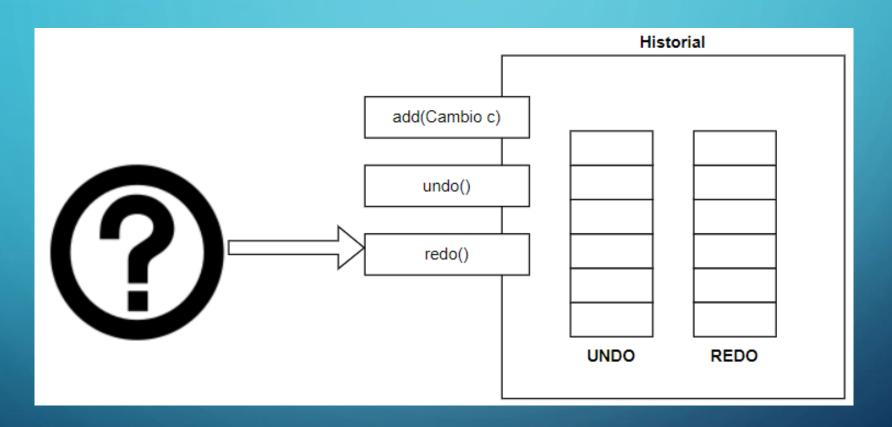
#### IMPLEMENTACIÓN



•/żqué hace redo()?

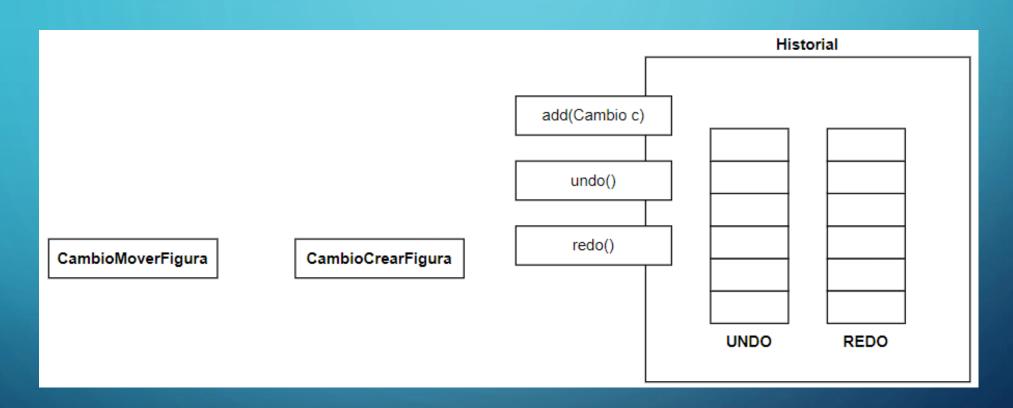
• ¿qué hace redo()?

#### IMPLEMENTACIÓN



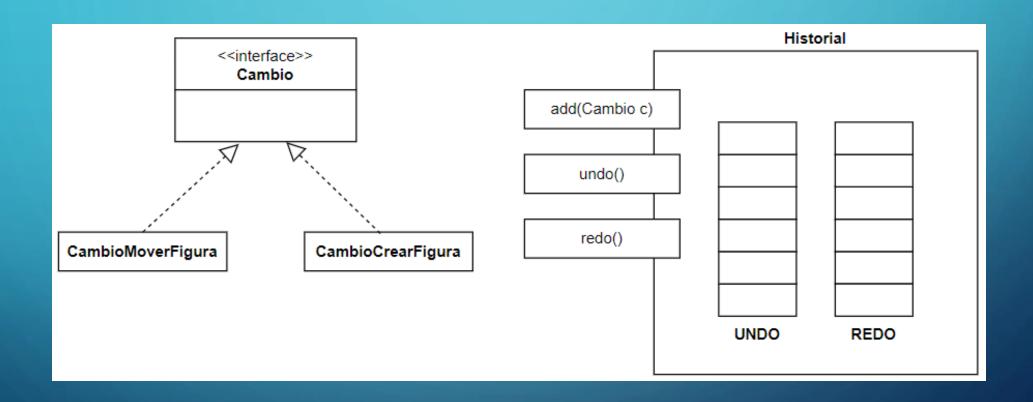
Piqué elementos van en las pilas UNDO y REDO?

• ¿qué elementos van en las pilas UNDO y REDO?



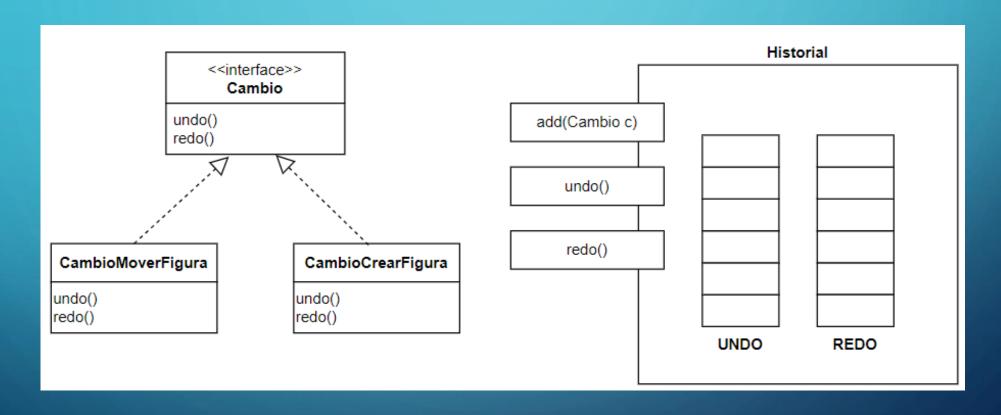
van en las pilas UNDO y REDO?

• ¿qué deben tener en común los elementos que van en las pilas UNDO y REDO?



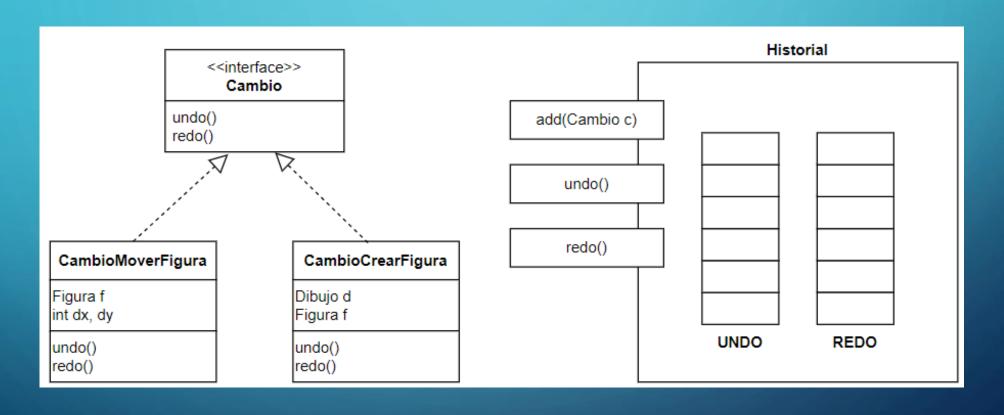
Piqué métodos debe tener la interfaz y las clases derivadas?

 żqué métodos debe tener la interfaz y las clases derivadas?

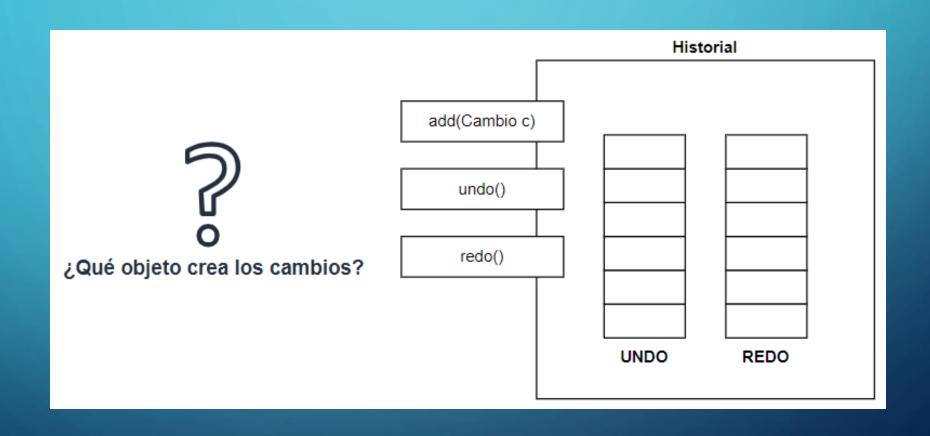


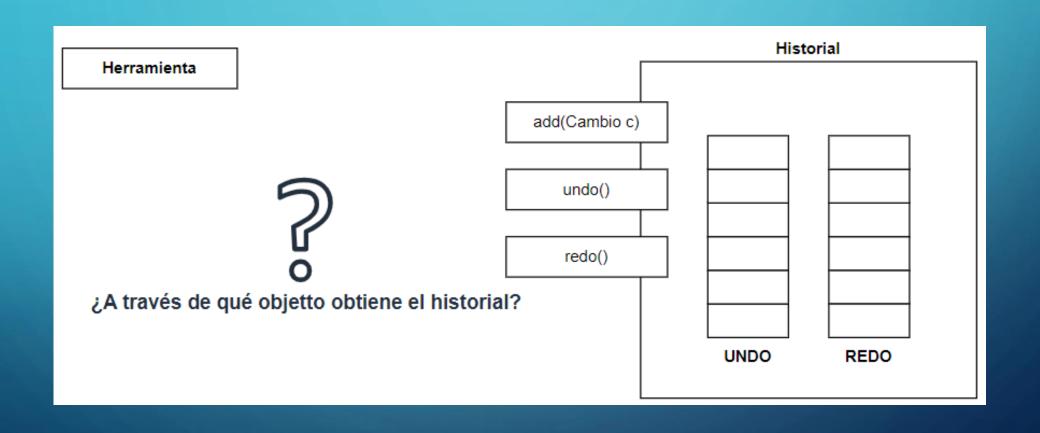
vàcomo configuramos las clases derivadas?

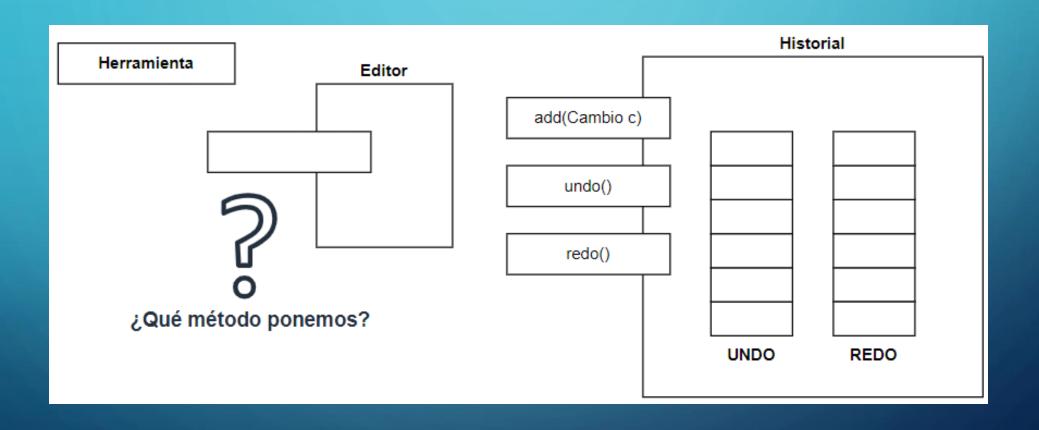
• ¿cómo configuramos las clases derivadas?



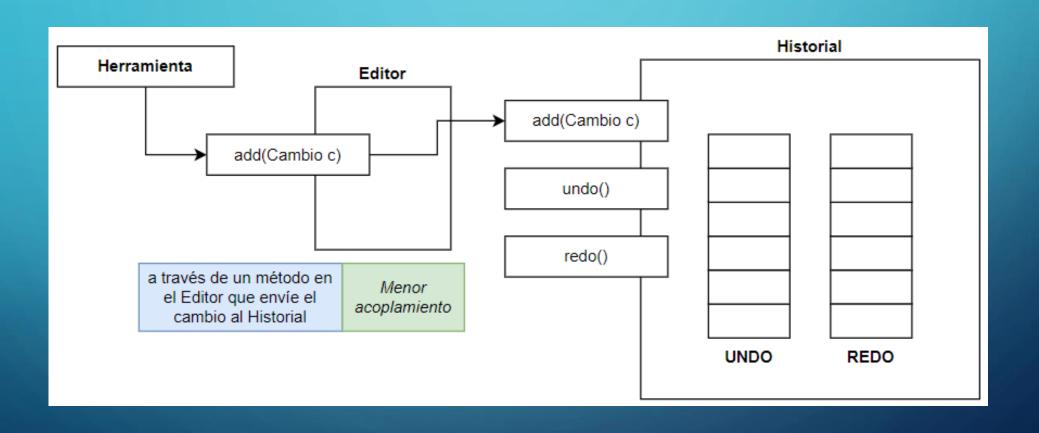
•/żquién crea los objetos cambio?







#### Opción 1



#### Opción 2

