Data:3/19/2018-3/25/2018 Week 11

This week

1. Fix the number issue on last task

The method to fix this problem comes from Professor Schubert's suggestion. Get the first number from the A matrix and multiply it by 1000. Get the second number from the B matrix and multiply it by 1000. Add both and divide the result by 1000.

The result before fixed:

Timing_Report

	cell names	delays in -ve paths	total -ve slack	times
context	{ fifomem/U10/Y (AO22X1)}	-0.10600000000000001	0.053000000000000005	2
context	{ fifomem/U10/Y (AO22X1)}	-0.10600000000000001	0.059000000000000004	2
context	{ fifomem/U11/Y (AO22X1)}	-0.10600000000000001	0.053000000000000005	2
context	{ fifomem/U11/Y (AO22X1)}	-0.10600000000000001	0.059000000000000004	2
context	{ fifomem/U12/Y (AO22X1)}	-0.10600000000000001	0.053000000000000005	2
context	{ fifomem/U12/Y (AO22X1)}	-0.10600000000000001	0.059000000000000004	2
context	{ fifomem/U13/Y (NAND3X0)}	-0.10600000000000001	0.126	4
context	{ fifomem/U13/Y (NAND3X0)}	-0.10600000000000001	0.126	4
context	{ fifomem/U13/Y (NAND3X0)}	-0.10600000000000001	0.126	4
context	{ fifomem/U13/Y (NAND3X0)}	-0.10600000000000001	0.126	4

The result:

Timing_Report

	cell names	delays in -ve paths	total -ve slack	times
context	{ fifomem/U10/Y (AO22X1)}	-0.106	0.053	2
context	{ fifomem/U10/Y (AO22X1)}	-0.106	0.059	2
context	{ fifomem/U11/Y (AO22X1)}	-0.106	0.053	2
context	{ fifomem/U11/Y (AO22X1)}	-0.106	0.059	2
context	{ fifomem/U12/Y (AO22X1)}	-0.106	0.053	2
context	{ fifomem/U12/Y (AO22X1)}	-0.106	0.059	2
context	{ fifomem/U13/Y (NAND3X0)}	-0.106	0.126	4
context	{ fifomem/U13/Y (NAND3X0)}	-0.106	0.126	4
context	{ fifomem/U13/Y (NAND3X0)}	-0.106	0.126	4
context	{ fifomem/U13/Y (NAND3X0)}	-0.106	0.126	4

And I found a tricky thing.A number times (1/1000) and a number do the division 1000 will lead different number in python. The picture below is the number times (1/1000). Some number has been fixed. However, there still be some number hasn't been fixed.

Timing_Report

	cell names	delays in -ve paths	total -ve slack	times
context	{ fifomem/U10/Y (AO22X1)}	-0.106	0.053	2
context	{ fifomem/U10/Y (AO22X1)}	-0.106	0.059000000000000004	2
context	{ fifomem/U11/Y (AO22X1)}	-0.106	0.053	2
context	{ fifomem/U11/Y (AO22X1)}	-0.106	0.059000000000000004	2
context	{ fifomem/U12/Y (AO22X1)}	-0.106	0.053	2
context	{ fifomem/U12/Y (AO22X1)}	-0.106	0.059000000000000004	2
context	{ fifomem/U13/Y (NAND3X0)}	-0.106	0.126	4
context	{ fifomem/U13/Y (NAND3X0)}	-0.106	0.126	4
context	{ fifomem/U13/Y (NAND3X0)}	-0.106	0.126	4
context	{ fifomem/U13/Y (NAND3X0)}	-0.106	0.126	4

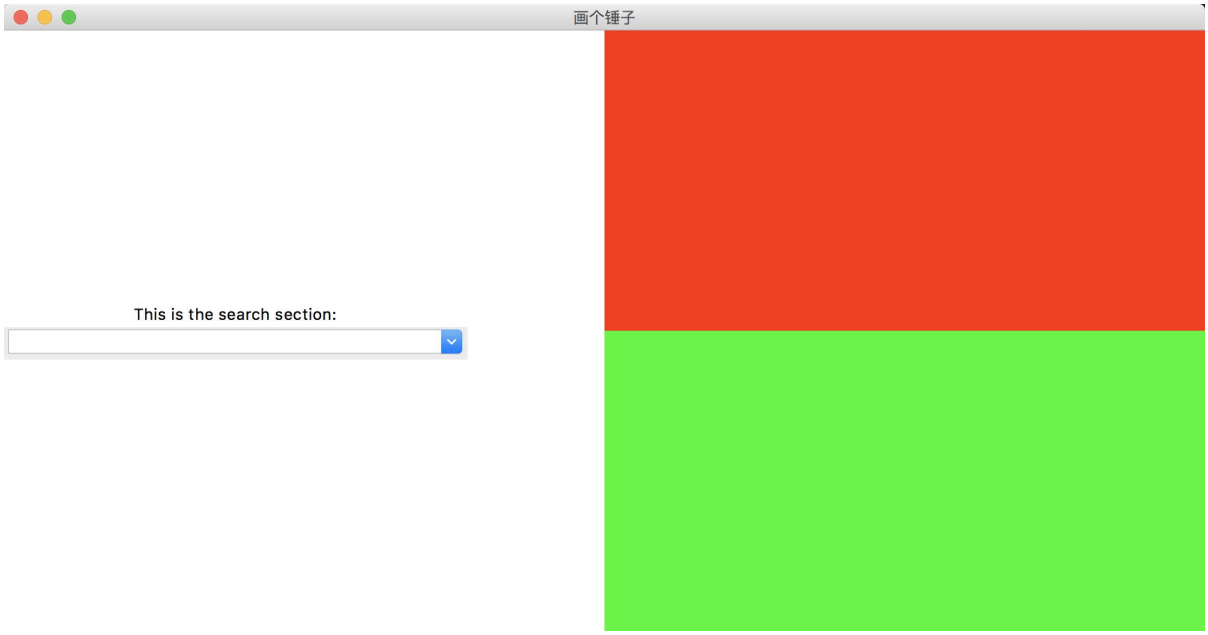
2. New task.

There be three section in the new task. I force on the third section GUI part this week.

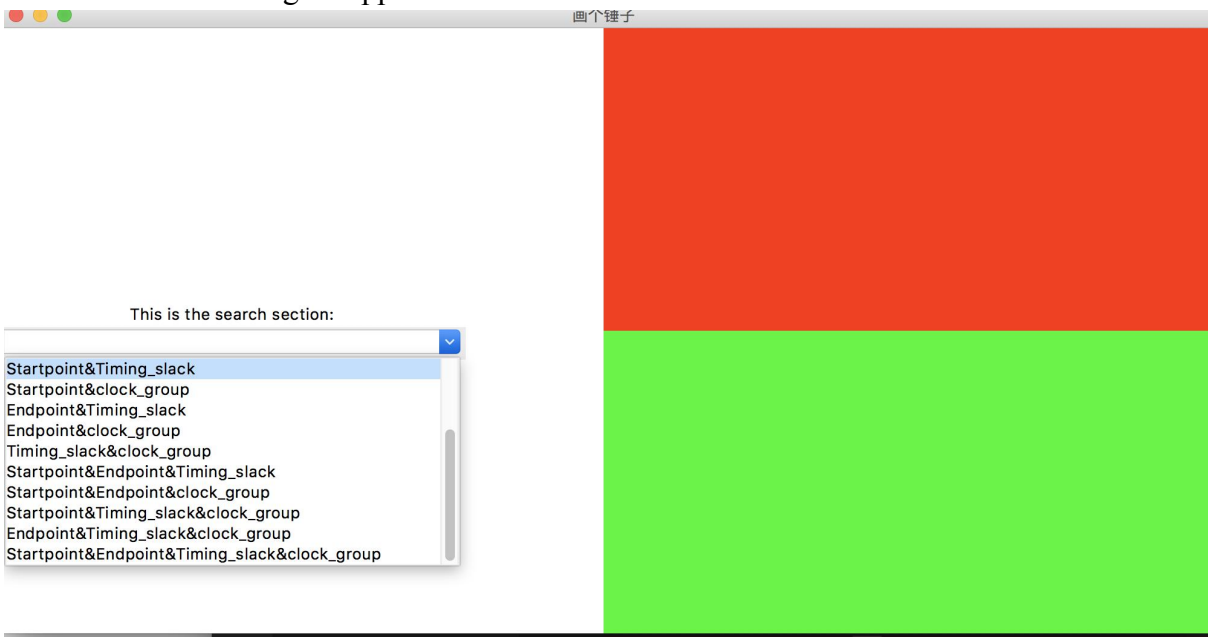
The red one is for first section.

The green one is for the second section.

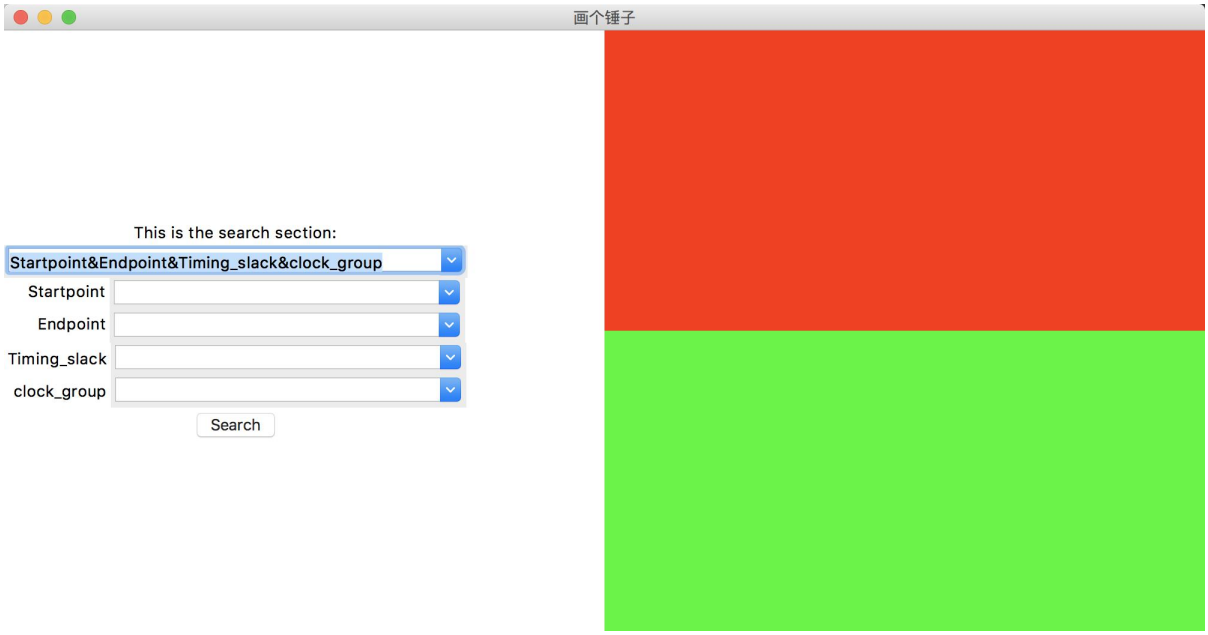
First, in the third second section, the user could search what they want to search from the first section. There are four list we can get from the first section: Startpoint, Endpoint, Timing_slack and clock_group. In the combobox, the user can choose which lists do they want to search.



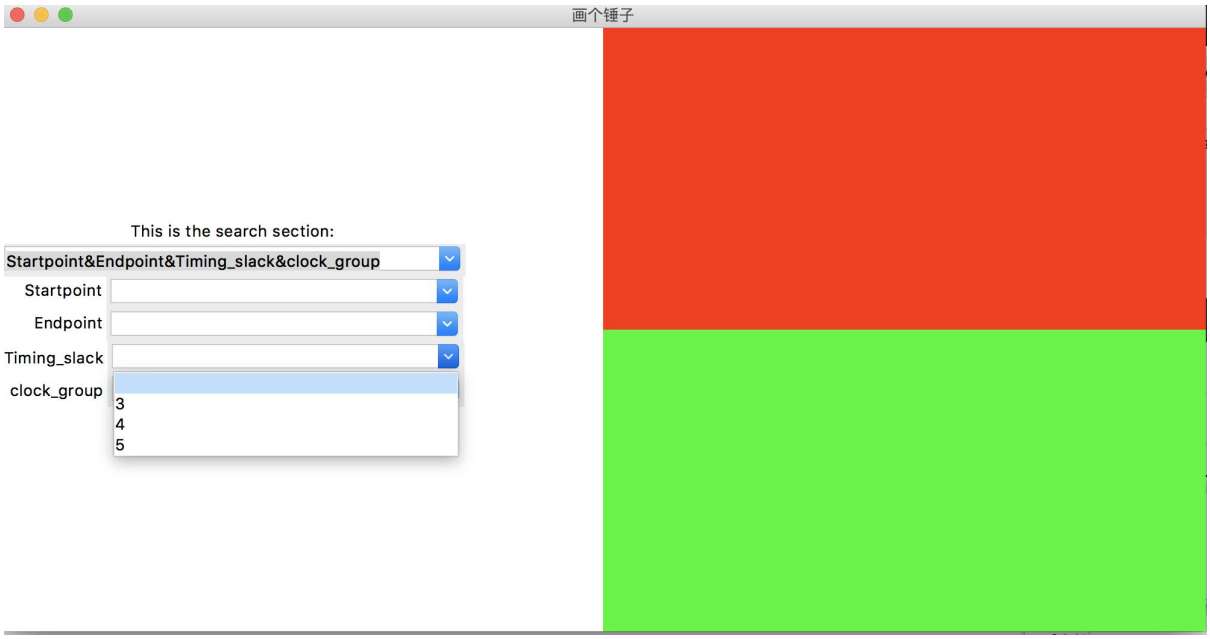
There are 15 cases might happen.



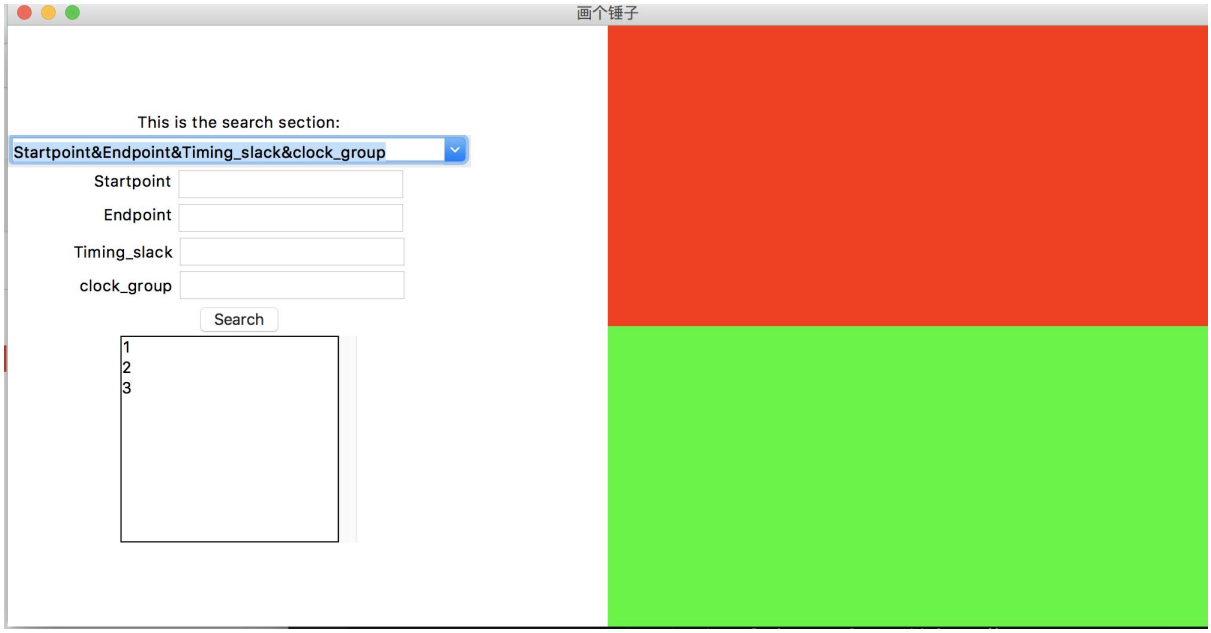
For example, if the user choose the last one Startpoint & Endpoint & Timing_slack & clock_group, there will be four more combobox show up.



In these part, the user can choose which item he/she want to search.
The item in this combobox is temporary. It is easy to change when we got data from the first section and the second section.



The origin idea for the third section is show the data with listbox when I press the down button.
The beginning is same as before.
When the use choose Startpoint & Endpoint & Timing_slack & clock_group. There will be four entry and one listbox show up. The data in the lisbox will change when I press the down button.
This is the first idea I try. I found two issue which seem the challenge for me.
One is update the date in the listbox.
The second challenge is connect the position of cursor with entry. It means that if my cursor is in the Startpoint entry, then I press the down button. The listbox will update the data of Startpoint rather than the data of Endpoint.



Next week
Finish the new task
Improve the code---make it simpler
Improve the GUI--make it more beautiful.