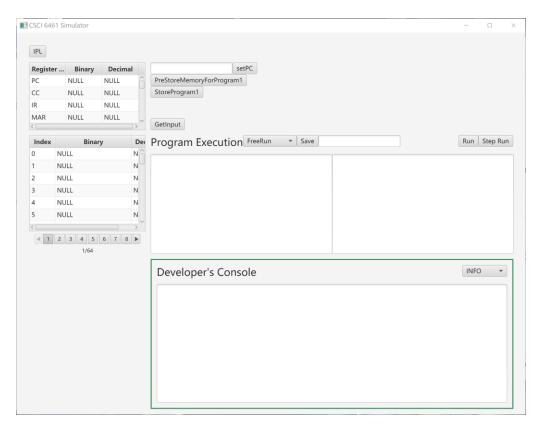
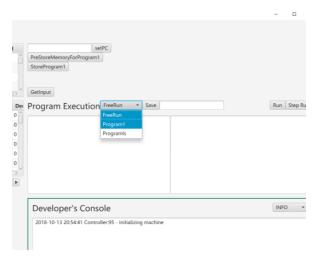
User GUIDE



- ① Open simulator-1.0-SNAPSHOT.jar
- ② Click Button[IPL], the Simulator is Initialized.

How to Run Program1:



Program1 is pre-stored in a file, thus you can click button [FreeRun] and then chooses [Program1].

To run it:

① Click Button [PreStroeMemoryForProgram1]

That will store some values into memory, which helps run the program1;

memory[8]	000000001000000	64	for X1
memory[9]	000000010101010	170	for X2
memory[85]	111111111111111	65535	for compare
memory[86]	000000001000000	64	
memory[87]	000000001010100	84	

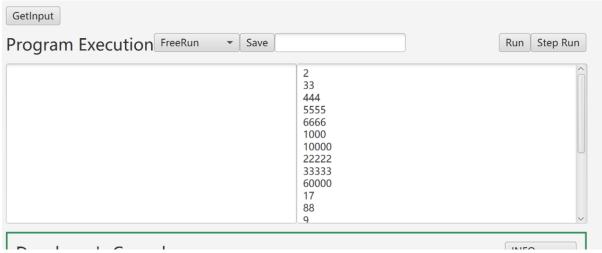
② Click Button [StoreProgram1]

That will store program1 form the memory[126] to memory[185]

And set the PC =126

For more detail of program1, please check program1.xlsx

3 Enter 21 numbers in the box. The simulator will search the first 20 numbers for the number closest to the last number entered by the user.



Then Click Button [GetInput]

- 4 Then click **[Run]** or **[Step Run]** to run the program1. After each instruction, the Developer's Console will output information about what the simulator has done.
- ⑤ After calculation, the box outputs a number which is the closest one among 20 numbers.



Specifically, in our test, we input the following numbers

	Α	
1	2	
2	33	
3	444	
4	5555	
5	6666	
6	1000	
7	10000	
8	22222	
9	33333	
10	60000	
11	17	
12	88	
13	9	
14	10	
15	12	
16	15	
17	118	
18	3298	
19	5389	
20	3213	
21	32	

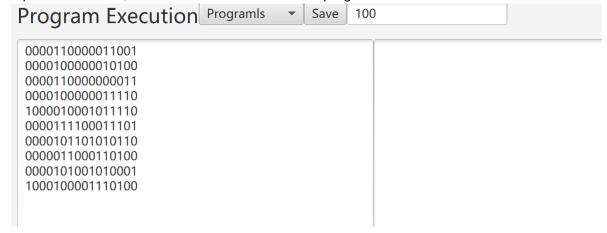
It's evident that the correct answer is 33, which is consistent with the output from our simulator.

Note: If you input a value that is not a number, it won't be IN to the simulator.

How to Run Instructions

We have pre-stored a "Load and Store Test Program" for quick experiments.

- ① Choose [programIs], it will be loaded automatically.
- ② Input a value here, which is the start index for test program.



- ③ Click Button [Save], now the "programls" is stored to memory, start with 100, PC=100
- 4 Then click [Run] or [Step Run] to run it.

⑤ You can use [SetPC] to change PC, then run a instruction repeatly.

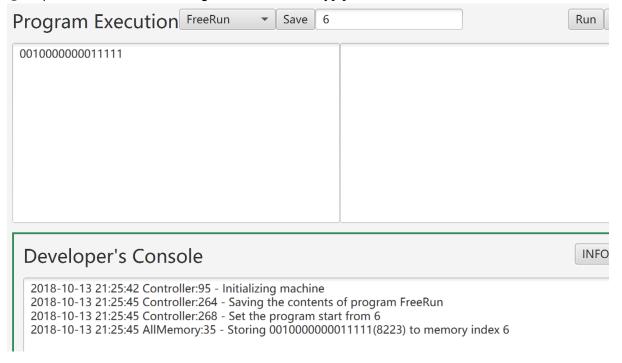


Input a index value like "100" and click [SetPC], PC = 100.

How to FreeRun

You can use instructions freely by choosing [FreeRun] and set your own instructions.

- ① Input an instruction in box. Such as "0010000000011111" JZ R0,0,31
- (2) Input an index and save. E.g., save it to memory[6]



3 Click [Run]

2018-10-13 21:26:18 AllMemory:73 - Fetching 001000000011111(8223) from memory index 6 2018-10-13 21:26:18 AllMemory:76 - Hit cache 2018-10-13 21:26:18 Transfer:55 - JZ Jump to 31 when R0 =0 2018-10-13 21:26:18 AllMemory:73 - Fetching 0000000000000(0) from memory index 31 2018-10-13 21:26:18 Miscellaneous:37 - HLT