3.1 [2 points] Typescript for compilation

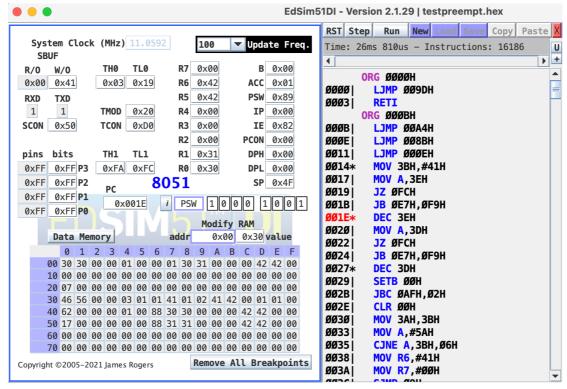
```
project3 — -zsh — <u>80×24</u>
[zhangjunteng@zhangjuntengdeMacBook-Air project3 % ls
                               preemptive.h
               preemptive.c
                                              testpreempt.c
[zhangjunteng@zhangjuntengdeMacBook-Air project3 % make
sdcc -c testpreempt.c
testpreempt.c:34: warning 158: overflow in implicit constant conversion
sdcc -c preemptive.c
preemptive.c:180: warning 85: in function ThreadCreate unreferenced function arg
ument : 'fp'
preemptive.c:222: warning 158: overflow in implicit constant conversion
sdcc -o testpreempt.hex testpreempt.rel preemptive.rel
zhangjunteng@zhangjuntengdeMacBook-Air project3 % ls
Makefile
              preemptive.lst testpreempt.asm testpreempt.lst testpreempt.rst
preemptive.rst testpreempt.hex testpreempt.mem preemptive.sym testpreempt.lk testpreempt.rel
preemptive.c
preemptive.h
zhangjunteng@zhangjuntengdeMacBook-Air project3 % make clean
rm *.hex *.ihx *.lnk *.lst *.map *.mem *.rel *.rst *.sym *.asm *.lk
rm: *.ihx: No such file or directory
rm: *.lnk: No such file or directory
make: *** [clean] Error 1
[zhangjunteng@zhangjuntengdeMacBook-Air project3 % ls
Makefile
               preemptive.c
                               preemptive.h
                                              testpreempt.c
zhangjunteng@zhangjuntengdeMacBook-Air project3 %
```

3.2 [18 points] Screenshots and explanation

Look up the addresses for your symbols (i.e., functions, variables, etc) in the file testpreempt.map. Set one or more breakpoints in EdSim51's assembly code window after you have assembled it.

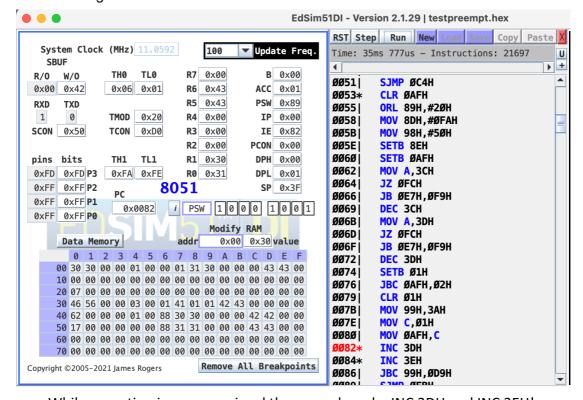
Value G	lobal	Global Defined In Module
C: 00000014 C: 00000053 C: 0000008B C: 0000009D C: 000000A1 C: 000000A2 C: 000000A3 C: 000000A8 C: 000000A8 C: 000000A8 C: 000000A8 C: 000000A8 C: 000000A8		testpreempt testpreempt testpreempt testpreempt testpreempt testpreempt testpreempt preemptive

 Take screenshots when the Producer is running and show semaphore changes.



While producer running, the DEC 3EH and DEC 3DH do the wait operation!

 Take screenshots when the Consumer is running and show semaphore changes.



While operation is over, we signal the semaphore by INC 3DH and INC 3EH!