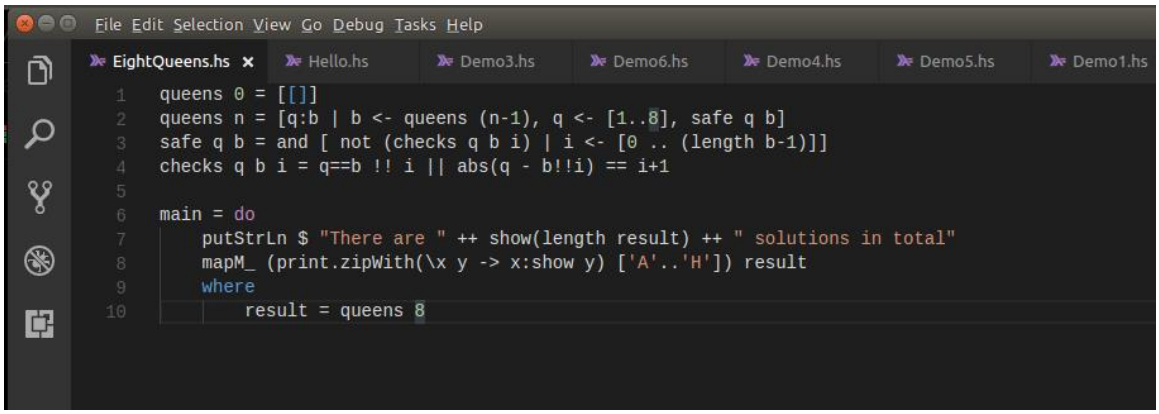
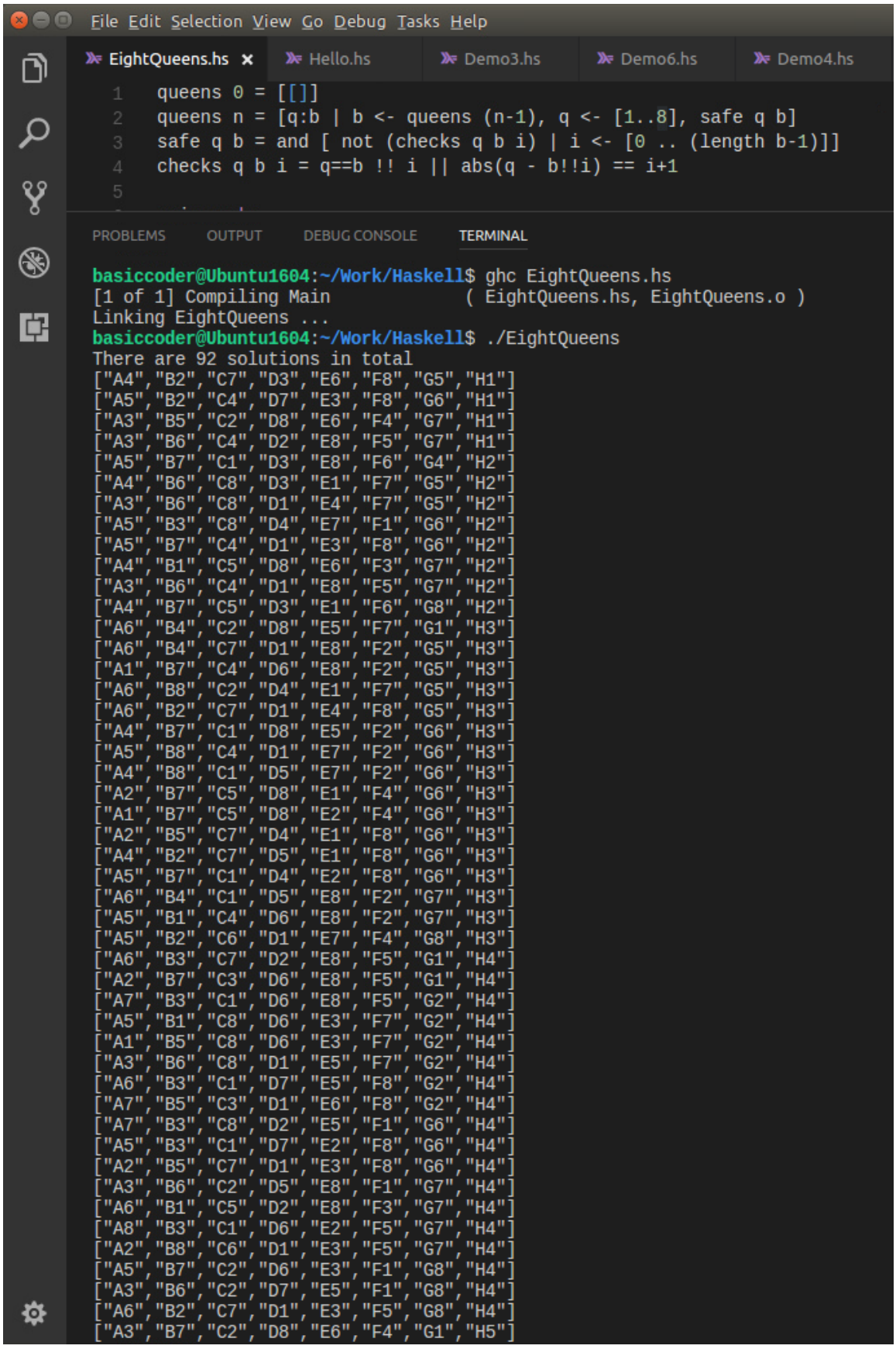
作业 1：Eight Queens

一：Source Code：



详细代码请查看附件 1

二：实验结果：


File Edit Selection View Go Debug Tasks Help
EightQueens.hs
Hello.hs
Demo3.hs
Demo6.hs
Demo4.hs
queens 0 = [[]]
queens n = [q:b | b <- queens (n-1), q <- [1..8], safe q b]
safe q b = and [not (checks q b i) | i <- [0 .. (length b-1)]]
checks q b i = q==b !! i || abs(q - b!!i) == i+1
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
basiccoder@Ubuntu1604:~/Work/Haskell$ ghc EightQueens.hs
[1 of 1] Compiling Main (EightQueens.hs, EightQueens.o)
Linking EightQueens ...
basiccoder@Ubuntu1604:~/Work/Haskell$ ./EightQueens
There are 92 solutions in total
["A4","B2","C7","D3","E6","F8","G5","H1"]
["A5","B2","C4","D7","E3","F8","G6","H1"]
["A3","B5","C2","D8","E6","F4","G7","H1"]
["A3","B6","C4","D2","E8","F5","G7","H1"]
["A5","B7","C1","D3","E8","F6","G4","H2"]
["A4","B6","C8","D3","E1","F7","G5","H2"]
["A3","B6","C8","D1","E4","F7","G5","H2"]
["A5","B3","C8","D4","E7","F1","G6","H2"]
["A5","B7","C4","D1","E3","F8","G6","H2"]
["A4","B1","C5","D8","E6","F3","G7","H2"]
["A3","B6","C4","D1","E8","F5","G7","H2"]
["A4","B7","C5","D3","E1","F6","G8","H2"]
["A6","B4","C2","D8","E5","F7","G1","H3"]
["A6","B4","C7","D1","E8","F2","G5","H3"]
["A1","B7","C4","D6","E8","F2","G5","H3"]
["A6","B8","C2","D4","E1","F7","G5","H3"]
["A6","B2","C7","D1","E4","F8","G5","H3"]
["A4","B7","C1","D8","E5","F2","G6","H3"]
["A5","B8","C4","D1","E7","F2","G6","H3"]
["A4","B8","C1","D5","E7","F2","G6","H3"]
["A2","B7","C5","D8","E1","F4","G6","H3"]
["A1","B7","C5","D8","E2","F4","G6","H3"]
["A2","B5","C7","D4","E1","F8","G6","H3"]
["A4","B2","C7","D5","E1","F8","G6","H3"]
["A5","B7","C1","D4","E2","F8","G6","H3"]
["A6","B4","C1","D5","E8","F2","G7","H3"]
["A5","B1","C4","D6","E8","F2","G7","H3"]
["A5","B2","C6","D1","E7","F4","G8","H3"]
["A6","B3","C7","D2","E8","F5","G1","H4"]
["A2","B7","C3","D6","E8","F5","G1","H4"]
["A7","B3","C1","D6","E8","F5","G2","H4"]
["A5","B1","C8","D6","E3","F7","G2","H4"]
["A1","B5","C8","D6","E3","F7","G2","H4"]
["A3","B6","C8","D1","E5","F7","G2","H4"]
["A6","B3","C1","D7","E5","F8","G2","H4"]
["A7","B5","C3","D1","E6","F8","G2","H4"]
["A7","B3","C8","D2","E5","F1","G6","H4"]
["A5","B3","C1","D7","E2","F8","G6","H4"]
["A2","B5","C7","D1","E3","F8","G6","H4"]
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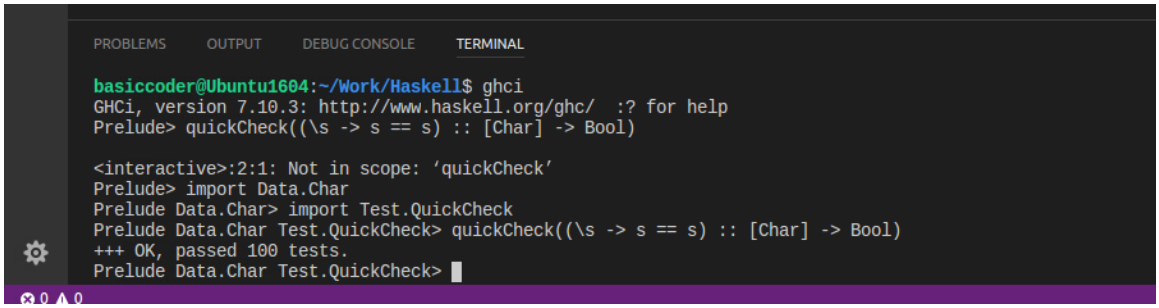
["A8","B3","C1","D6","E2","F5","G7","H4"]
["A2","B8","C6","D1","E3","F5","G7","H4"]
["A5","B7","C2","D6","E3","F1","G8","H4"]
["A3","B6","C2","D7","E5","F1","G8","H4"]
["A6","B2","C7","D1","E3","F5","G8","H4"]
["A3","B7","C2","D8","E6","F4","G1","H5"]

作业 2：QuickCheck

一. 实验过程：



附件：

[1] EightQueens.hs