Type checking rule

1.基礎功能

(1)   Each variable must be declared before it is used.

(2)   Each identifier can be only declared once.

(3)   The types of the operands of an operator must be the same.

(4)   The types of the two sides of an assignment must be the same.

(5)   ==、!=、>=、>、<=、<等運算的結果，其type為boolean.

例如: expression 2>3 的type為boolean.

(6)   if-else、for-loop、while-loop constructs的condition部分，其type 必須是boolean，否則為type error.

2.額外功能

(1) 運算(\*=,/=,%=,+=,-=)的兩邊的type必須相同

(2) else if的condition部分，其type 必須是boolean