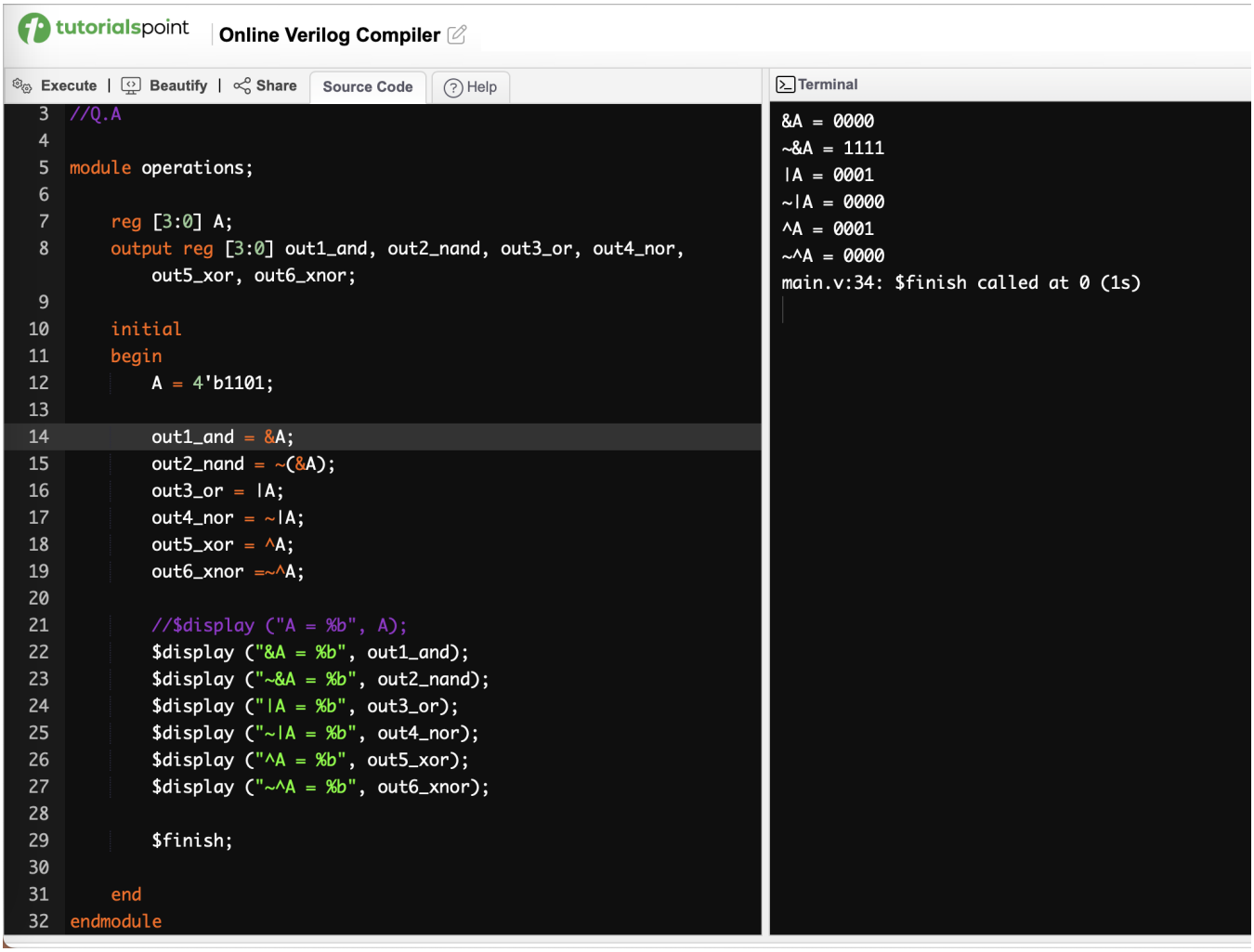
Q.A

1.



2.

a) 1’b0
b) b) 1’bx

3.

a) 1’bx
b) 4’bxxxx
c) 1’bx
d) 12’b1010_1010_1x10
e) 1’b1
f) 1’b1

4.

a. 4’x11 is **illegal** as we can’t represent an 8 bit constant in 4 bits. We require at least 5 bits to represent the above constant.

b. ‘h3C is a legal declaration and will be represented in 32-bit binary as:
0000_0000_0000_0000_0000_0000_0011_1100

c. 12’HABC is legal declaration and will be represented in 12-bit binary as:
1010_1011_1100

d. 4’b111011 is legal declaration and the 6-bit number can be represented in 4 bits as:
1011

e. 4’b11?? Is legal and will be represented as:
4’b11zz

f. 8’b1100_1001 is legal and will be represented as:
1100_1001