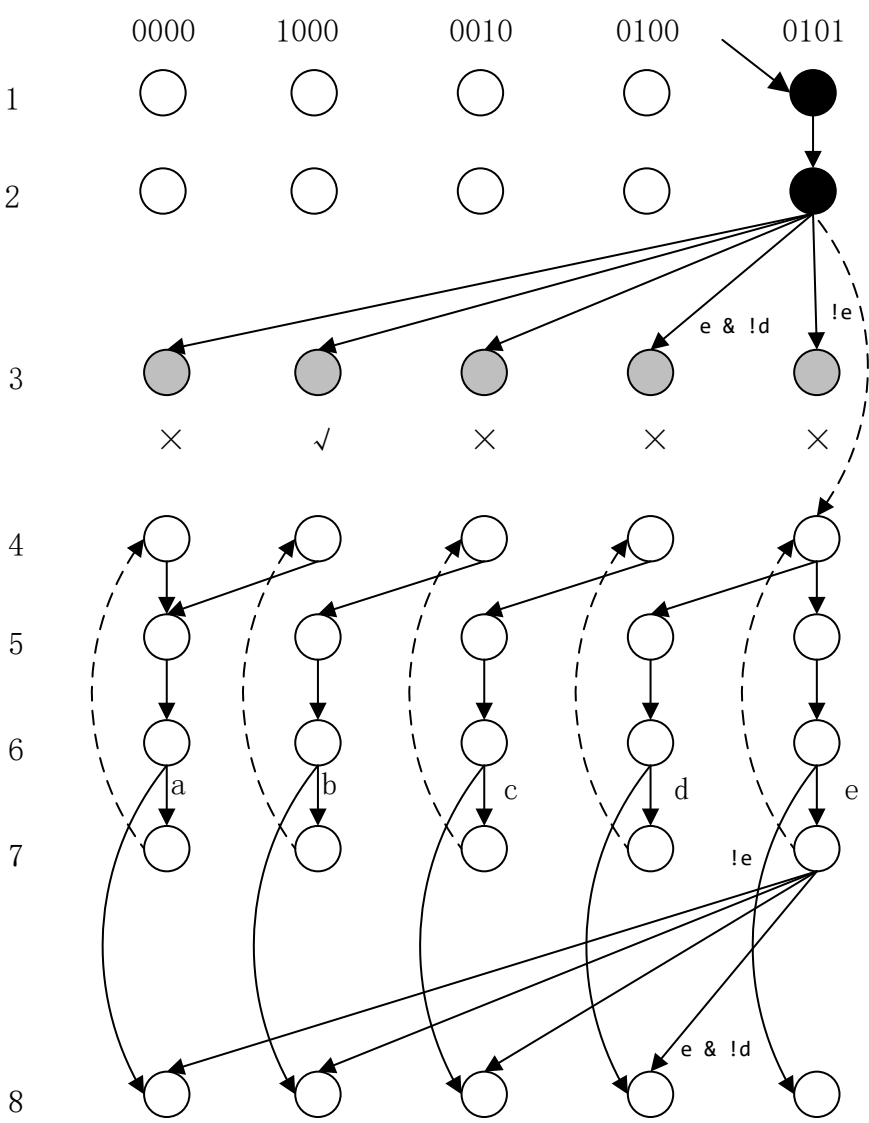```
     decl b0,b1,b2,b3;
0   main()
1   b0,b1,b2,b3 := 0,1,0,1;
2   f();
3   assert(b0);
     end

4   f()
5   b0,b1,b2,b3 := b2,b3,*,*;
6   if !b1 then goto l1; fi;
7   f();
8   l1:
     end
```

**(a)**Boolean program

a : *rep(0000) = 1
b : *rep(1000) = 1
c : *rep(0010) = 1
d : *rep(0100) = 1
e : *rep(0101) = 1

**(b)**Implementations of *rep



**(c)**Control flow graph