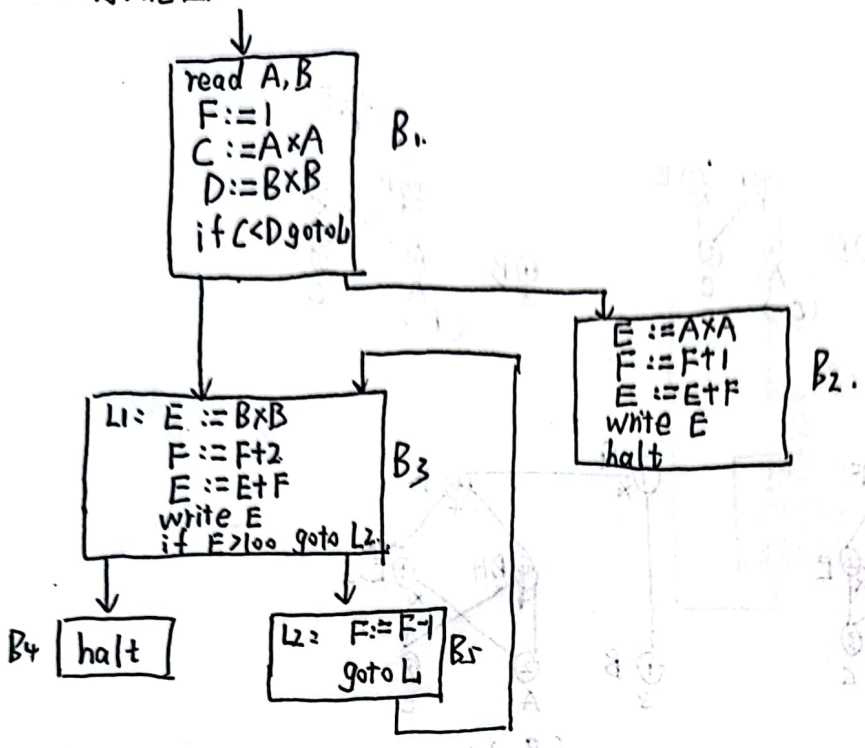
2151769-吕博文

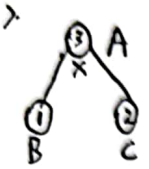
2、程序流图：



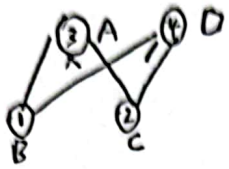
3. B_1: ① $A := B \times C$
② $D := B / C$
③ $E := A + D$
④ $F := 2 \times E$
⑤ $G := B \times C$
⑥ $H := G \times G$
⑦ $F := H \times G$
⑧ $L := F$
⑨ $M := L$

我们按照DAG的构造方式进行构造

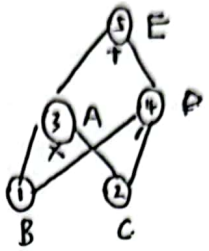
(a)



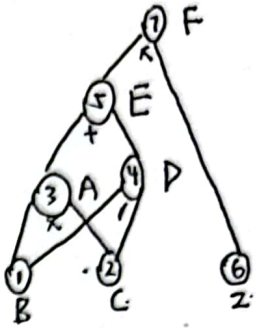
(b)



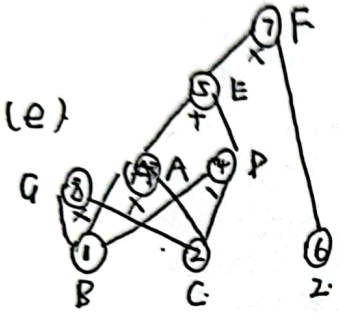
(c)



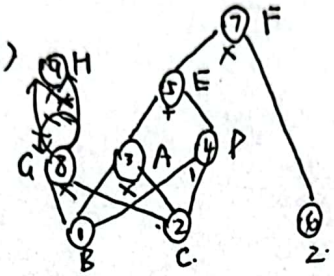
(d)

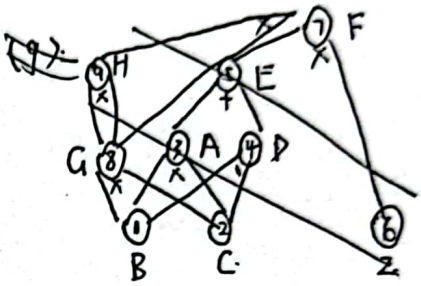


(e)

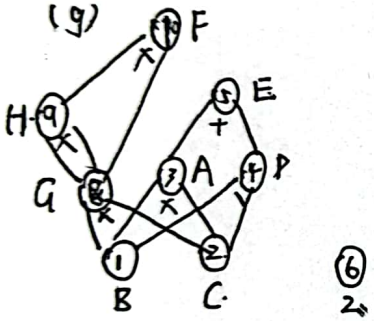


(f)

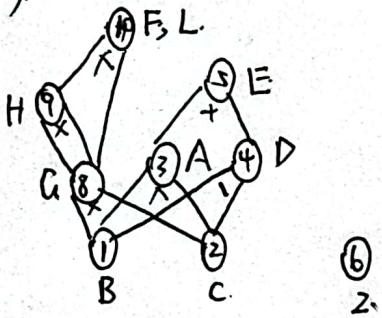




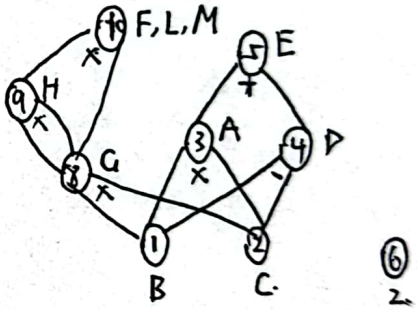
(g)



(h)



(i)



(1) 只有 G, L, M 后面还被引用

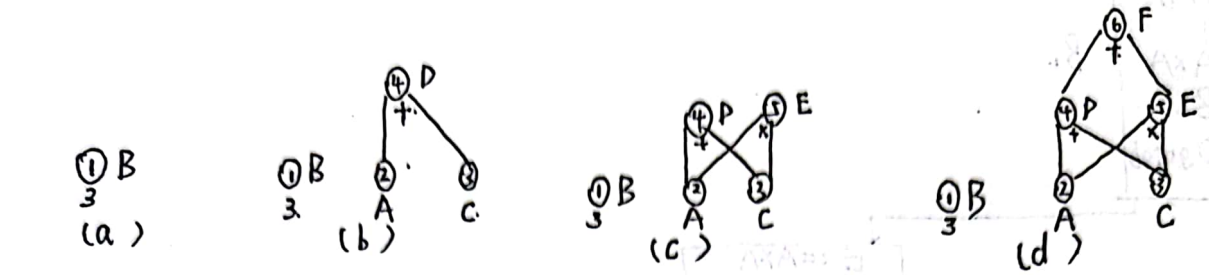
$G := B \times C$
$H := G \times G$
$L := H \times G$
$M := L$

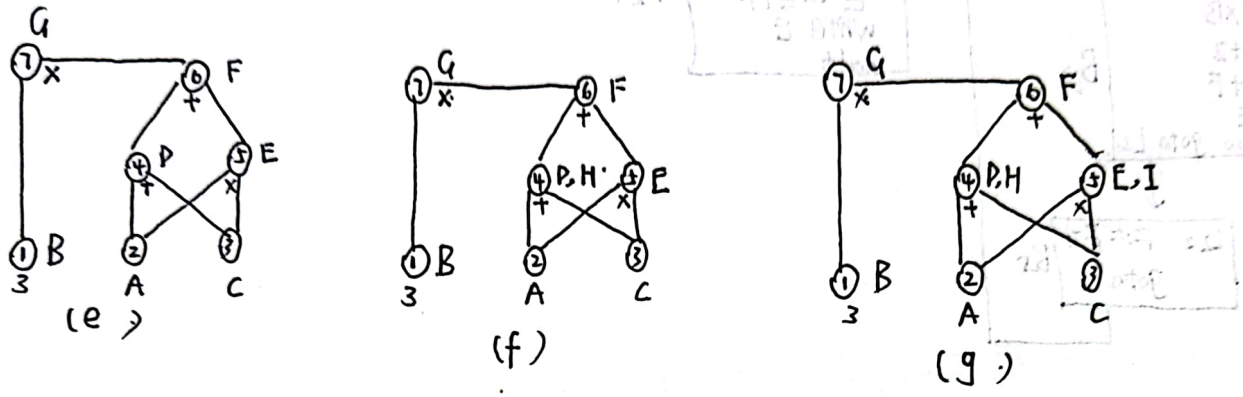
(2) 只有 L 后面还被引用

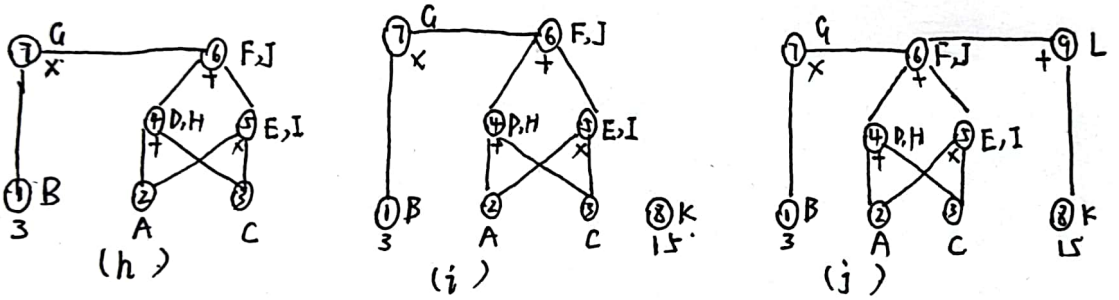
$G := B \times C$
$H := G \times G$
$L := H \times G$

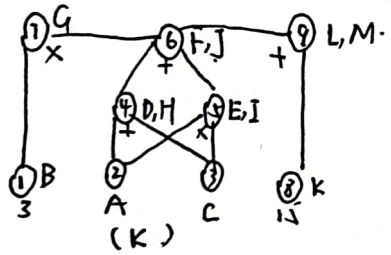
3. B_2.

B_2 构造 DAG 的过程如下：









11). 只有 G, L, M 之后被引用

$D = A + C$

$E = A \times C$

$F = D + E$

$G = 3 \times F$

$L = 15 + F$

$M = L$

12) 只有 L 之后被引用.

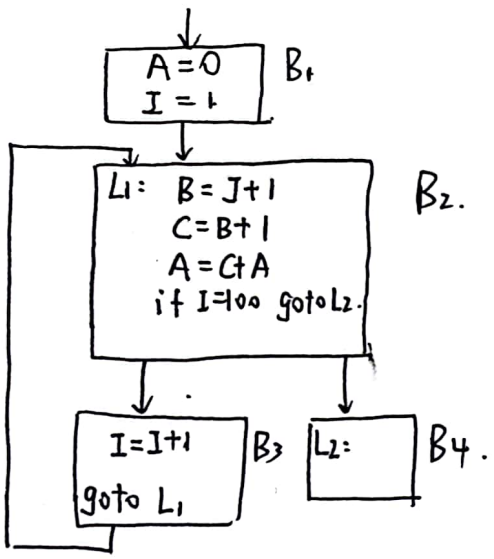
$D = A + C$

$E = A \times C$

$F = D + E$

$L = F + 15$.

5、首先我们画出着原有程序的程序流图.



经过代码外提与强度削弱之后.