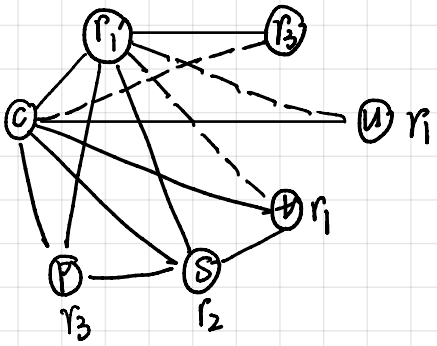
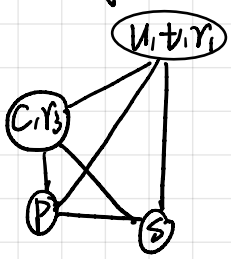
11.1

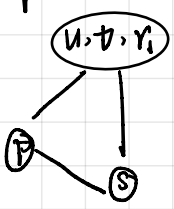
```
f: c ← r3
   p ← r1
   if p=0 goto L1
   r1 ← M[p]
   call f
   s ← r1
   r1 ← M[p+4]
   call f
   t ← r1
   u ← s+t
   goto L2
L1: u ← 1
L2: r1 ← u
    r3 ← c
    return
```



Step1: use George. 合并 r_3 到 c; u+t 到 r_1



Step2: 溢出 c



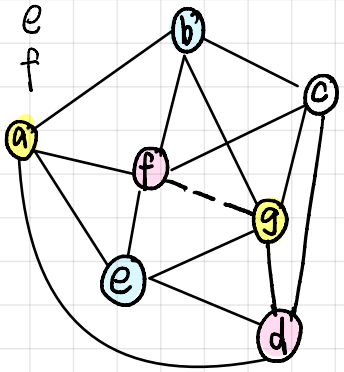
Step3: 简化 p

Step4: 简化 s

11.3

a. select-stack:

① d 潜在溢出
② c
③ g
④ a
⑤ b
⑥ e
⑦ f

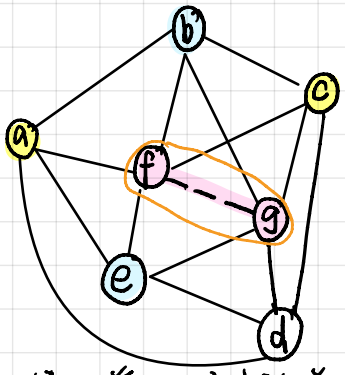


有潜在溢出，无实际溢出

b. select-stack

合并 fg

① d ② c ③ fg ④ a ⑤ b ⑥ e



无潜在溢出，无实际溢出