# 第五次作业参考答案

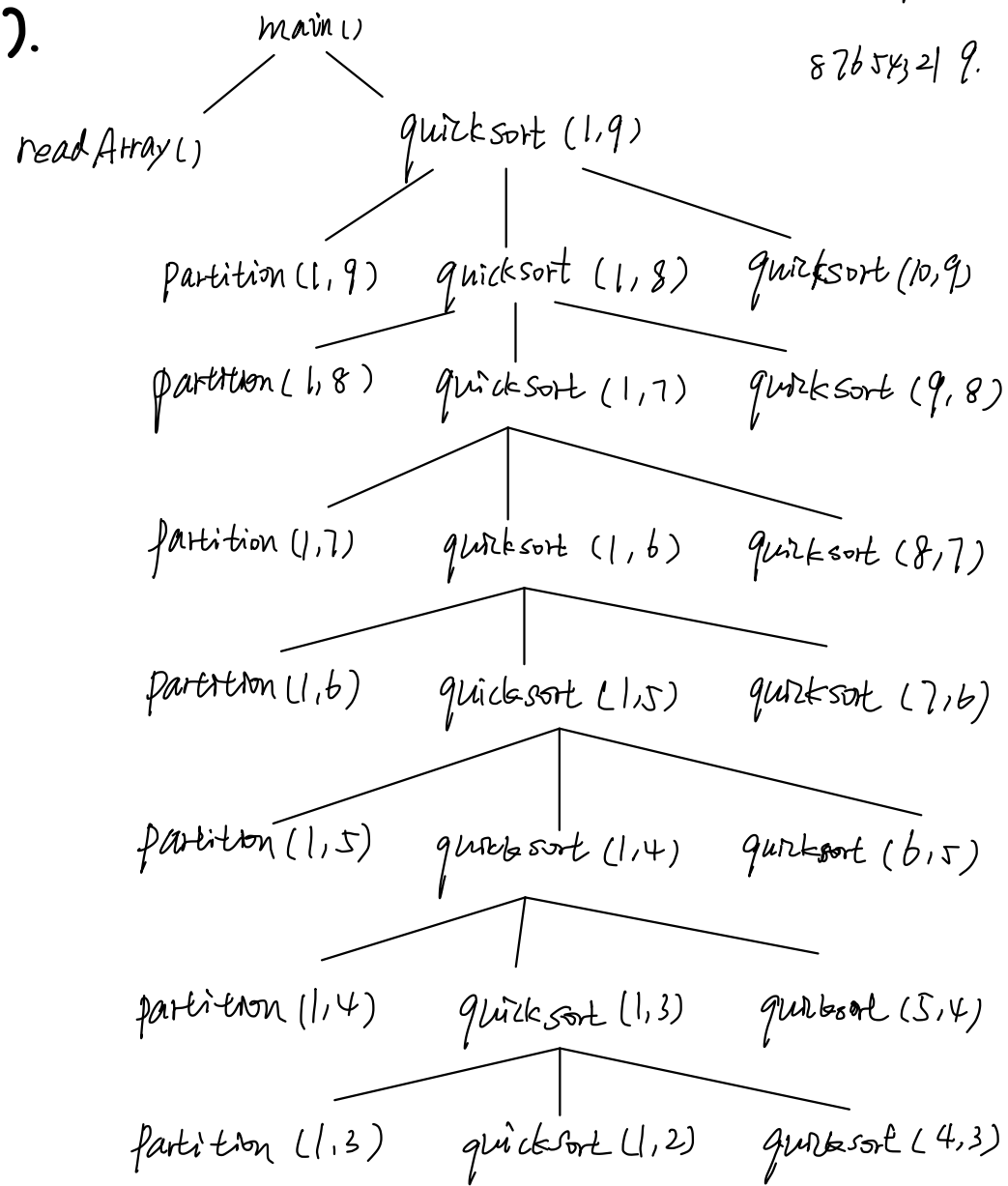
## 第一题.

7.2.1

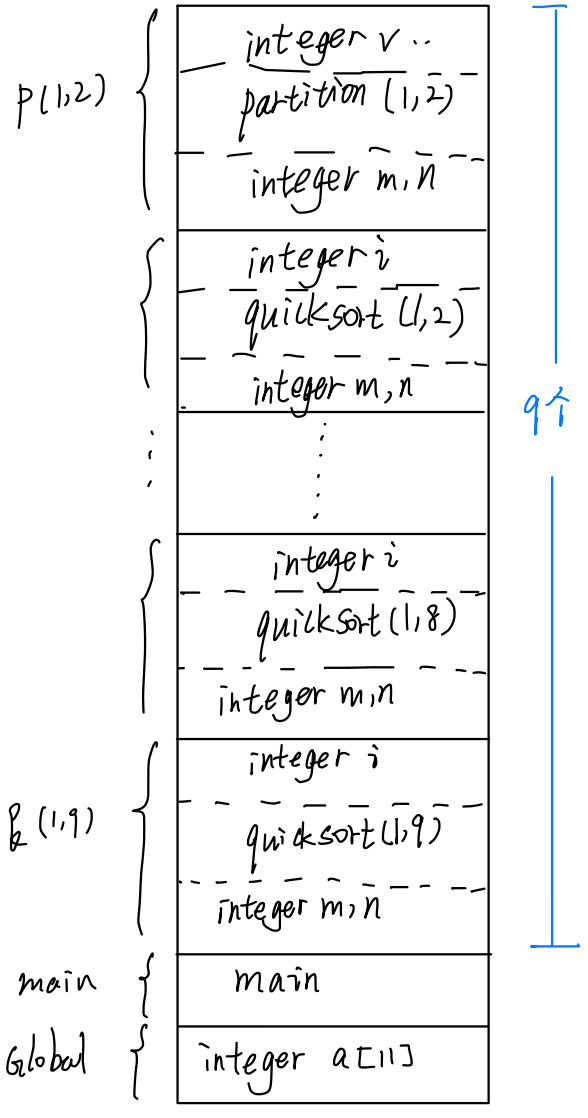
(a).

$a_1 = 9$.

8 7 6 5 4 3 2 1 9.




(b).




这是向上增长的活动记录栈.

算上全局数据和main，

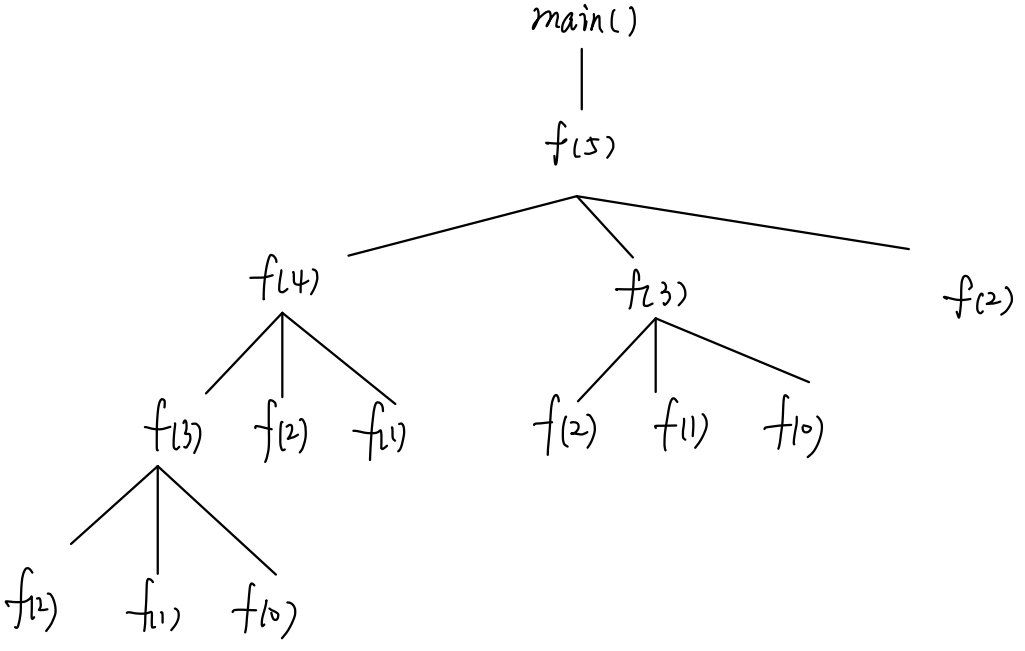
共有11个活动记录。

活动记录栈可能的情况.

# 补充练习：

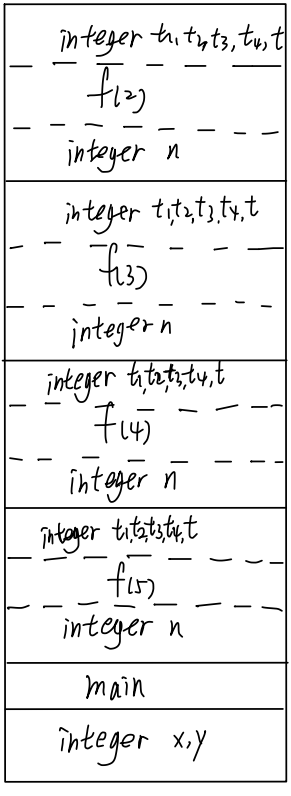
1.

① 活动树.

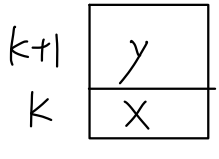



② stack map. (第一次达到最大情况).

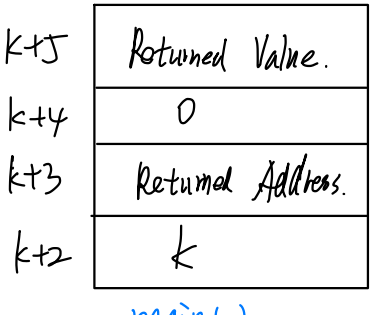
(向上增长的活动记录栈)



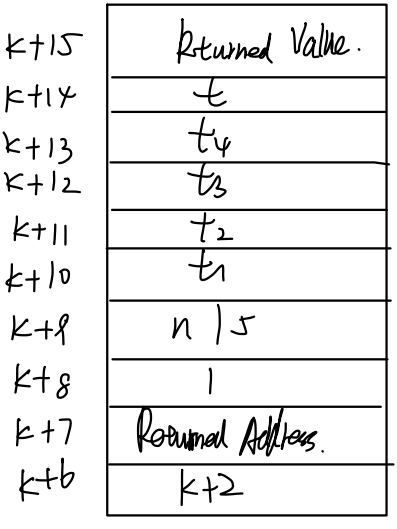

③. Detailing



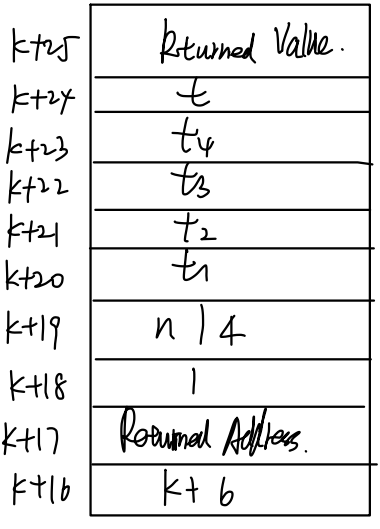

Global variable.



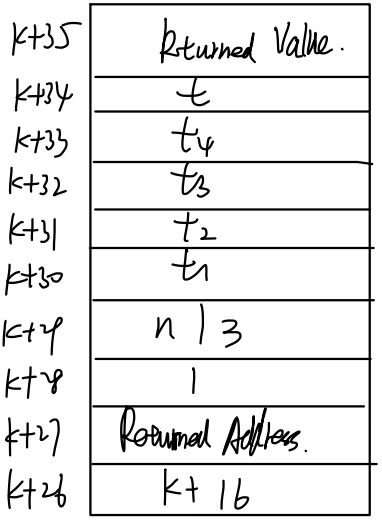

main()


k+15
Returned Value.
k+14
t
k+13
t4
k+12
t3
k+11
t2
k+10
t1
k+9
n | 5
k+8
1
k+7
Returned Address.
k+6
k+2

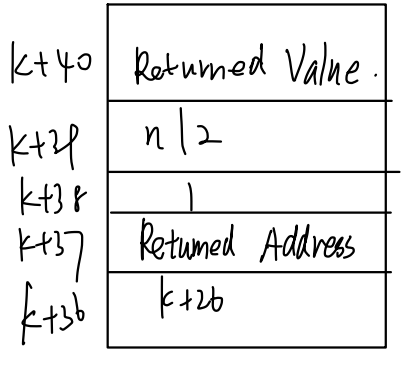
f(5)


k+25
Returned Value.
k+24
t
k+23
t4
k+22
t3
k+21
t2
k+20
t1
k+19
n | 4
k+18
1
k+17
Returned Address.
k+16
k+6

f(4)


k+35
Returned Value.
k+34
t
k+33
t4
k+32
t3
k+31
t2
k+30
t1
k+29
n | 3
k+28
1
k+27
Returned Address.
k+26
k+16

f(3).


k+40
Returned Value.
k+39
n | 2
k+38
1
k+37
Returned Address
k+36
k+26

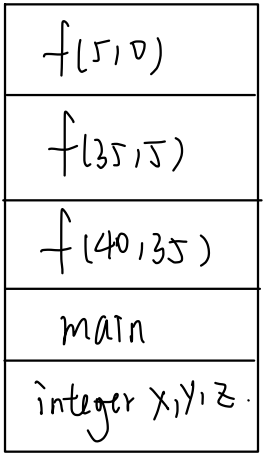
f(2).

2.

① 活动树.

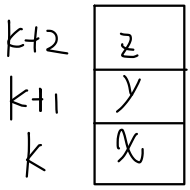
main().
|
f(40,35).
|
f(35,5)
|
f(5,0)

② Stack map. (最大).

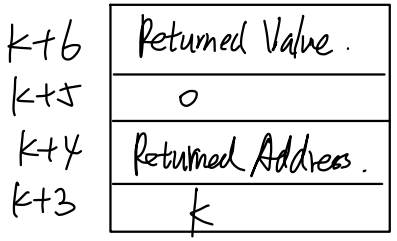



(向上增长).

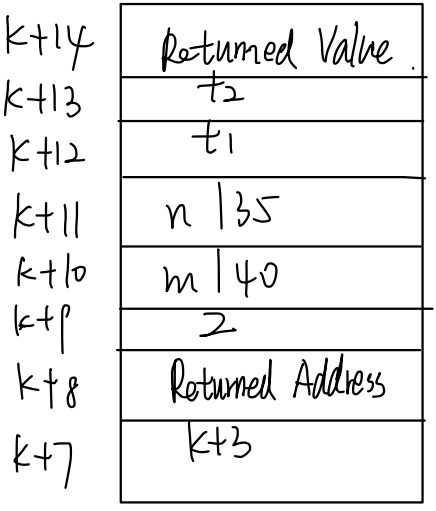
③ detailing.



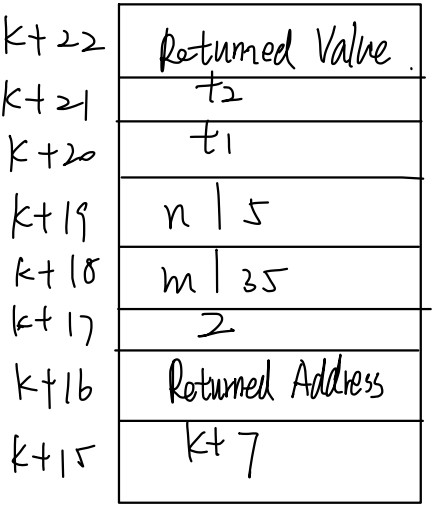

Global.



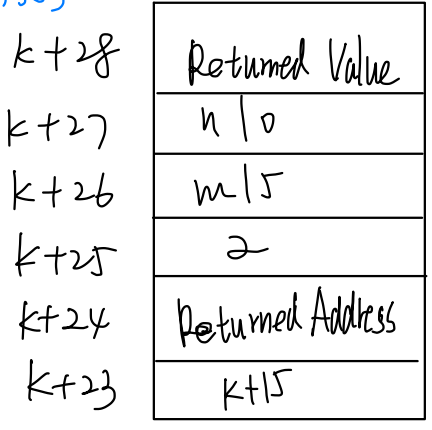

main




f(40,35)




f(35,5)




f(5,0)