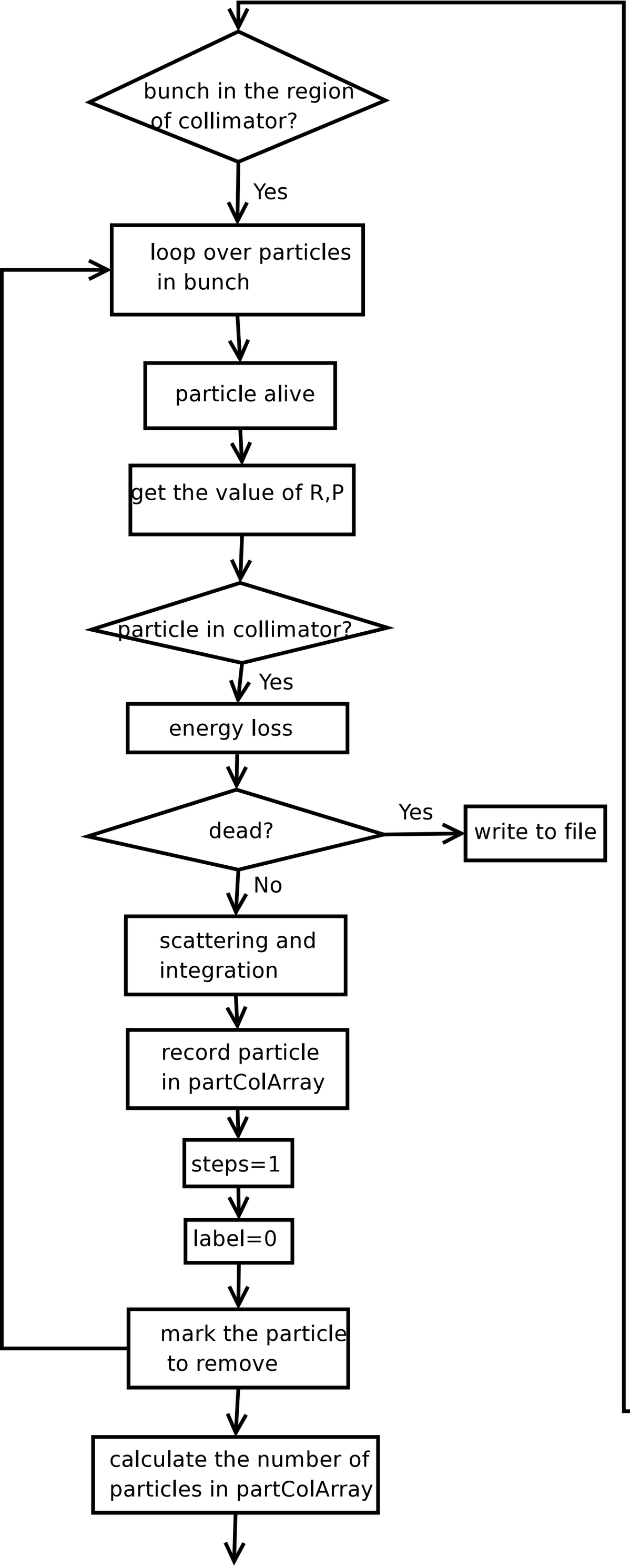
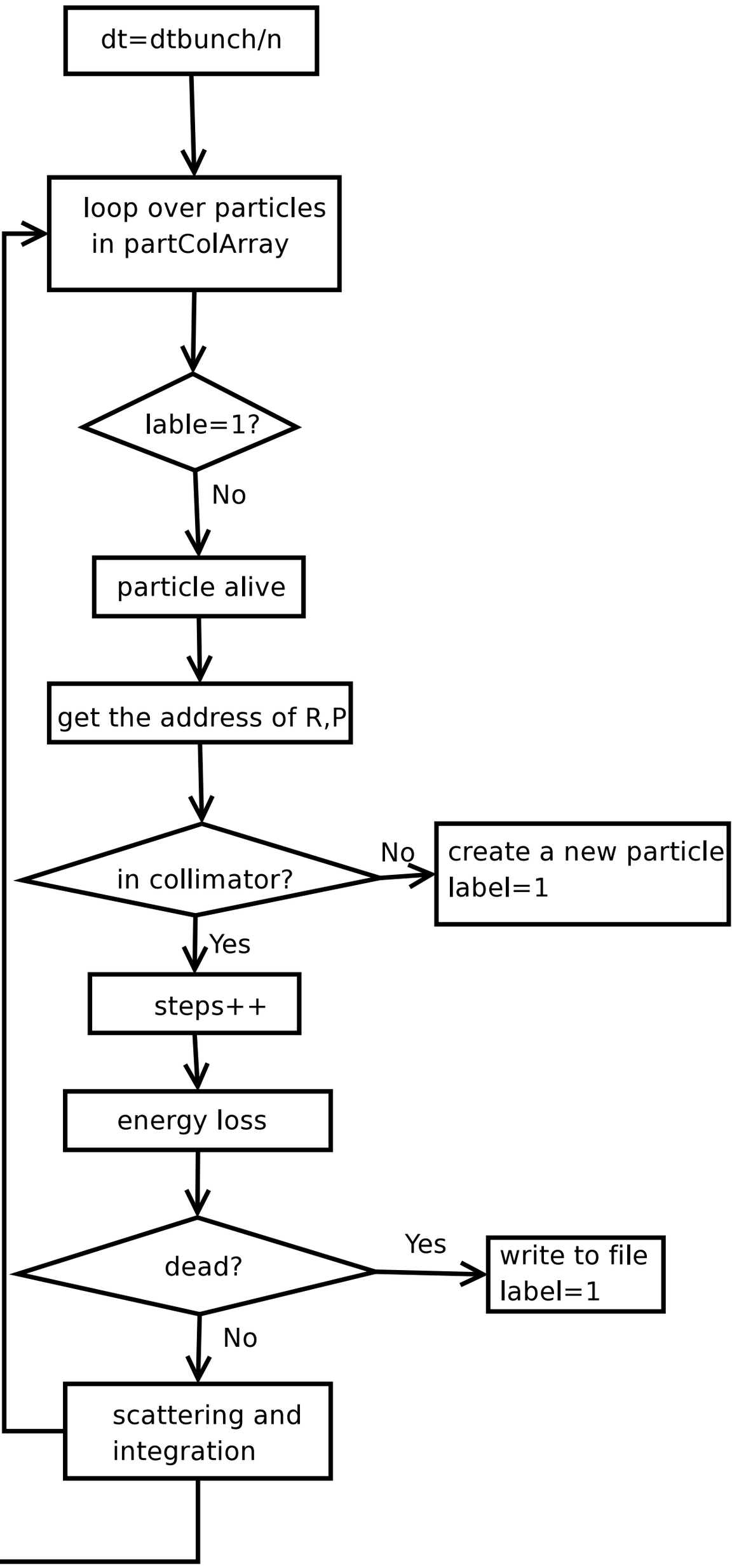

bunch in the region of collimator?
Yes
loop over particles in bunch
particle alive
get the value of R,P
particle in collimator?
Yes
energy loss
dead?
Yes
write to file
No
scattering and integration
record particle in partColArray
steps=1
label=0
mark the particle to remove
calculate the number of particles in partColArray


dt=dtbunch/n
loop over particles in partColArray
lable=1?
No
particle alive
get the address of R,P
in collimator?
No
create a new particle label=1
Yes
steps++
energy loss
dead?
Yes
write to file label=1
No
scattering and integration