

write a main program into a subroutine

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My main program is divided into two parts:
first part produces some values and followed by the 2nd part.
The second part of the main program can produce the result I want:
count= 3.000000
t= 1
cid= 3 flag= 1 sum= 0.0000000E+00 t= 1
Press any key to continue

However, when I modify it into a subroutine, the result is not what I want:

```
count= 3.000000
t= 1
t= 3
t= 2
cid= 4 flag= 1 sum= 2.000000 t= 2
Press any key to continue
```

When it founds the t=1, it should not go to find the t=3, t=2. It should report the cid, flag value when t=1.

I wonder if there is anything I need to modify when I write a main program into a subroutine. I double checked it several times and they are all the same.

This main program has previous values from the first part of the main program: count, order(j), j, and I call the subroutine right after the first part of the main program.

Please help me !

This is the second part of the main program.

```
if (count ==1 .and. vwz(v,w,j) .ne. 0) then
cid=j
flag=1
else if (count ==1 .and. vwz(v,w,j)==0) then
flag=0
cid=0
elseif (count .gt. 1 ) then
c cindx(j)=0: content j is not selected so far
do i=1,count
```

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```
cindx(i)=0
enddo
cid=0
sum=0
flag=0

do while (sum .lt. real(count+1) .and. flag==0)

call digran(dseed,p,count,t)
if (cindx(t) ==0) then
write(*,*)'t=',t
inner: do j=1,n1
if(t==order(j) .and. vwz(v,w,j) .ne. 0) then
flag=1
cid=j
cindx(order(j))=1
exit

elseif (t==order(j) .and. vwz(v,w,j) ==0) then
cindx(t)=1
sum=sum+1
exit

else
endif
17 enddo inner

else
endif
if (sum== real(count)) exit

enddo

else
endif
```

This is my subroutine:

```
subroutine search(v,w,n1,order,count,p,dseed,flag,cid,sum,t )
real sum,p,count,vwz(v,w,n1)
integer j,cid,flag,n1,cindx(0:count),order(0:n1),t

double precision dseed

if (count ==1 .and. vwz(v,w,j) .ne. 0) then
cid=j
flag=1
else if (count ==1 .and. vwz(v,w,j)==0) then
flag=0
cid=0
```

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```
else if (count .gt. 1 ) then

do i=1,count
cindx(i)=0
enddo
cid=0
sum=0
flag=0

do while (sum .lt. real(count+1) .and. flag==0)

call digran(dseed,p,count,t)
if (cindx(t) ==0) then
write(*,*)'t=',t
inner: do j=1,n1
if(t==order(j) .and. vwz(v,w,j) .ne. 0) then
flag=1
cid=j
cindx(t)=1
exit

elseif (t==order(j) .and. vwz(v,w,j) ==0) then

cindx(t)=1
sum=sum+1
exit

else
endif
77 enddo inner

else
endif
if (sum== real(count)) exit

enddo

else
endif
return
end
```

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