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sortnr.f90
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!234567890
      subroutine sortnr(n,arrin,indx)
      sorts an array by the heapsort method
     w. h. preuss et al. numerical recipes implicit real*8 (a-h,o-z)
      dimension arrin(n),indx(n)
      do 11 j=1,n
       indx(j)=j
11
      continue
      1=n/2+1
      ir=n
     continue
        if(1.gt.1)then
          1=1-1
          indxt=indx(1)
          q=arrin(indxt)
        else
          indxt=indx(ir)
          q=arrin(indxt)
          indx(ir)=indx(1)
          ir=ir-1
          if(ir.eq.1)then
indx(1)=indxt
            return
          endif
        endif
        i=1
        j=1+1
20
        if(j.le.ir)then
          if(j.lt.ir)then
           if(arrin(indx(j)).lt.arrin(indx(j+1)))j=j+1
          if(q.lt.arrin(indx(j)))then
            indx(i)=indx(j)
           i=j
j=j+j
          else
          j=ir+1
endif
        go to 20
        endif
        indx(i)=indxt
      go to 10
      end
```