

```

; find gridpoints at pile cap
config gpextra 10
ini gpextra 1 1.0 range z -0.1 0.1 group pile
ini gpextra 2 2.0 range z -0.6 -0.4 group pile
ini gpextra 3 3.0 range z -1.1 -0.9 group pile
ini gpextra 4 4.0 range z -1.6 -1.4 group pile
ini gpextra 5 5.0 range z -2.1 -1.9 group pile
ini gpextra 6 6.0 range z -2.6 -2.4 group pile
ini gpextra 7 7.0 range z -3.1 -2.9 group pile
ini gpextra 8 8.0 range z -3.6 -3.4 group pile
ini gpextra 9 9.0 range z -4.1 -3.9 group pile
ini gpextra 10 10.0 range z -4.6 -4.4 group pile
def find_add
    head1 = null
    head2 = null
    head3 = null
    head4 = null
    head5 = null
    head6 = null
    head7 = null
    head8 = null
    head9 = null
    head10 = null
    p_gp = gp_head
    loop while p_gp # null
        if gp_extra(p_gp, 1) = 1.0 then
            gp_extra(p_gp, 1) = head1
            head1 = p_gp
        endif
        if gp_extra(p_gp, 2) = 2.0 then
            gp_extra(p_gp, 2) = head2
            head2 = p_gp
        endif
        if gp_extra(p_gp, 3) = 3.0 then
            gp_extra(p_gp, 3) = head3
            head3 = p_gp
        endif
        if gp_extra(p_gp, 4) = 4.0 then
            gp_extra(p_gp, 4) = head4
            head4 = p_gp
        endif
        if gp_extra(p_gp, 5) = 5.0 then
            gp_extra(p_gp, 5) = head5
            head5 = p_gp

```

```

endif
if gp_extra(p_gp,6) = 6.0 then
    gp_extra(p_gp,6) = head6
    head6 = p_gp
endif
if gp_extra(p_gp,7) = 7.0 then
    gp_extra(p_gp,7) = head7
    head7 = p_gp
endif
if gp_extra(p_gp,8) = 8.0 then
    gp_extra(p_gp,8) = head8
    head8 = p_gp
endif
if gp_extra(p_gp,9) = 9.0 then
    gp_extra(p_gp,9) = head9
    head9 = p_gp
endif
if gp_extra(p_gp,10) = 10.0 then
    gp_extra(p_gp,10) = head10
    head10 = p_gp
endif
p_gp = gp_next(p_gp)
endloop
end
find_add

```