

**Exercise 390** *With three nested for loops, iterate over  $x=-1.5:.01:0.5$  and  $y=-1:0.01:1$ . For each point, iterate (say) 100 times and **break** if `abs(z_n)` is ever too large (say larger than 10) (There's no need to keep the sequence of  $z$ 's, but be sure not to overwrite the  $z$  variable that comes from  $x + iy$ . If the sequence grew to be large, place a black dot at  $(x,y)$ , and otherwise leave the point white.*

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