```
function findCentroid(M, P) = {
  m    = max(M)
  sel1 = M select { x => |x| > P.thresh1 * m }
  // default threshold is 50%
  c1   = centroid(sel1)
  // i.e. (x, y, mag) of weighted cells
  sel2 = area_around(sel1, P.radius)
  sel3 = sel2 select { x => |x| > P.thresh2 * m }
  // default threshold is 33%
  c2   = centroid(sel3)
  // i.e. (x, y, mag) of weighted cells)
  c2
}
```