function [objpos,objdim] = distributeObjects(nobjects,startpos,endpos,gap,warnoff)

if nargin<5

warnoff = 0;

end

rev = 0;

if startpos > endpos

rev = 1;

tmp = endpos;

endpos = startpos;

startpos = tmp;

end

objdim = ((endpos-startpos)-(nobjects-1)\*gap)/nobjects;

objpos = startpos:objdim+gap:endpos;

%which generates a starting point at the end of the object range.

objpos = objpos(1:nobjects);

if rev

objpos = objpos(end:-1:1);

end

if ~warnoff && (any(objpos < 0) || objdim < 0)

warndlg('The parameters you entered result in a negative starting point or dimension. You

may want to rethink that.');

end