

Sample run:


Notes:
The easiest way to handle drawing a circle whose center is not at $(0,0)$ is to simply offset x and y when plotting the
circle as shown above, specifically:


Compare the code fragment above that draws a circle with center at $(50,50)$ versus the code fragment below,

 simply "go to $x$ : x $x$ : y"
of 50 to both $x$ and $y$.

