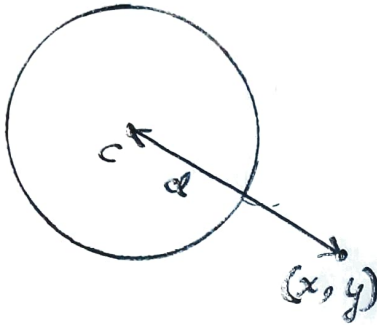
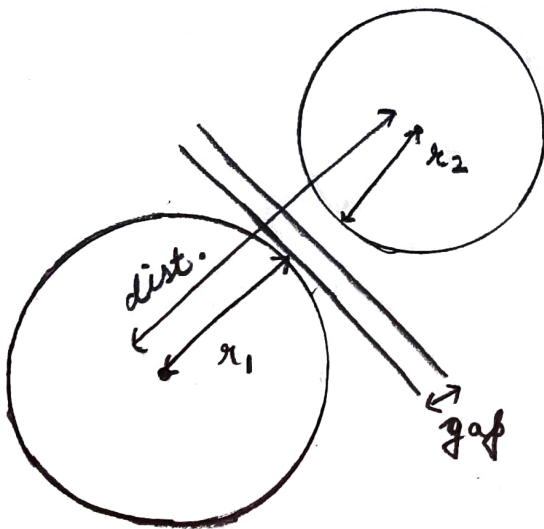


- > Condition :-

⇒ If $d < \text{radius of circle}$ then point is going to lie inside the circle hence we would not append the list, else we would.



- \Rightarrow distance between centers - radius $<=$ gap
- We have set a minute gap to avoid overlapping and make things look nicer.



if $\text{dist} - (x_1 + x_2) \leq \text{gap}$
 ↓
 optimal sizes
 else we increase the size.

Also, we are making sure that the circles don't overlap by setting some of the initial parameters such as radius.