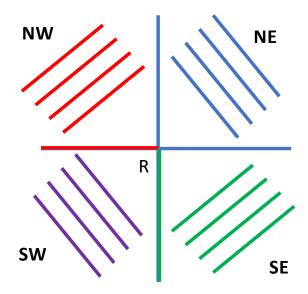
A Color-coded Illustration of how **PT_COMPARE**Determines the Quadrants for point **R**



1)SE 2)SW 3)NE 4)NW

Corner Cases (on top of the ones given in Figure 2.17 of the assignment)

- Center of the circle represents the query point and the radius of the circle represents the query radius
- Some of the corner cases are given below as examples, the others need to be figured out by you.
- X, Y, Z, and W represent the intersection points, the others represent the line segments

represent the line segments		
N -		- o
X	A B	Y
M 1 -		C P
	D ,	
G -		Ď
L W K -	F E	Z - J
*		,

if parent is on	quadrants to be visited
A \vee	SE, SW, NE
В	SE, SW, NW
C 🗸	NW, SW, SE
D 🗸	NW, SW, NE
E V	NW, NE
F	NW, NE
G	NE, SE
	NE, SE
Р	SW, NW
R /	NW

if parent is on	quadrants to be visited
J	??? NEI NW
K	??? NE
L	??? NE
M	??? NEISE
N	??? 5E
0	??? SE , S W
X	??? SEINE
Υ	SW, NW, SE
Z	??? NEINW
W	??? NE