digraph proof {
    # All nodes except Gathered (P0) have edges towards Majority (P1),
    # so for ease of read we do not write them down.
    # Similarly, self loops are always present and thus not represented.

    # Ending cases
    P  [label="Gathered"]; # measure = (0, 0)
P0  [label="Majority"]; # measure = (0, n) n > 0

    # Diameter cases
    P1 [label="Diameter-clean"] # measure = (1, n)
P2 [label="Diameter-dirty"] # measure = (2, n)

    # Case of triangles
    P3s [label="Scalene-clean"]; # measure = (3, n)
P4s [label="Scalene-dirty"]; # measure = (4, n)
P3i [label="Isoceles-clean"]; # measure = (3, n)
P4i [label="Isoceles-dirty"]; # measure = (4, n)
P3e [label="Equilateral-clean"]; # measure = (3, n)
P4e [label="Equilateral-dirty"]; # measure = (4, n)

    # Generic cases
    P5  [label="Generic-clean"] # measure = (5, n)
P6  [label="Generic-dirty"] # measure = (6, n)

    P0  ->  P;
P1  ->  P;
P2  ->  P1;
P3e ->  {P2 P};
P4e ->  P3e;
P4s ->  P3s;
P4i ->  P3i;
P3i ->  P;
P3s ->  P;
P5  ->  {P3e P4i P4s};
P6  ->  P5;
}